OFFICE OF THE GOVERNOR MEMORANDUM

OCT 20 1987

TO: Task Force Members

FROM: Gayle Fink

DATE: October 16, 1987

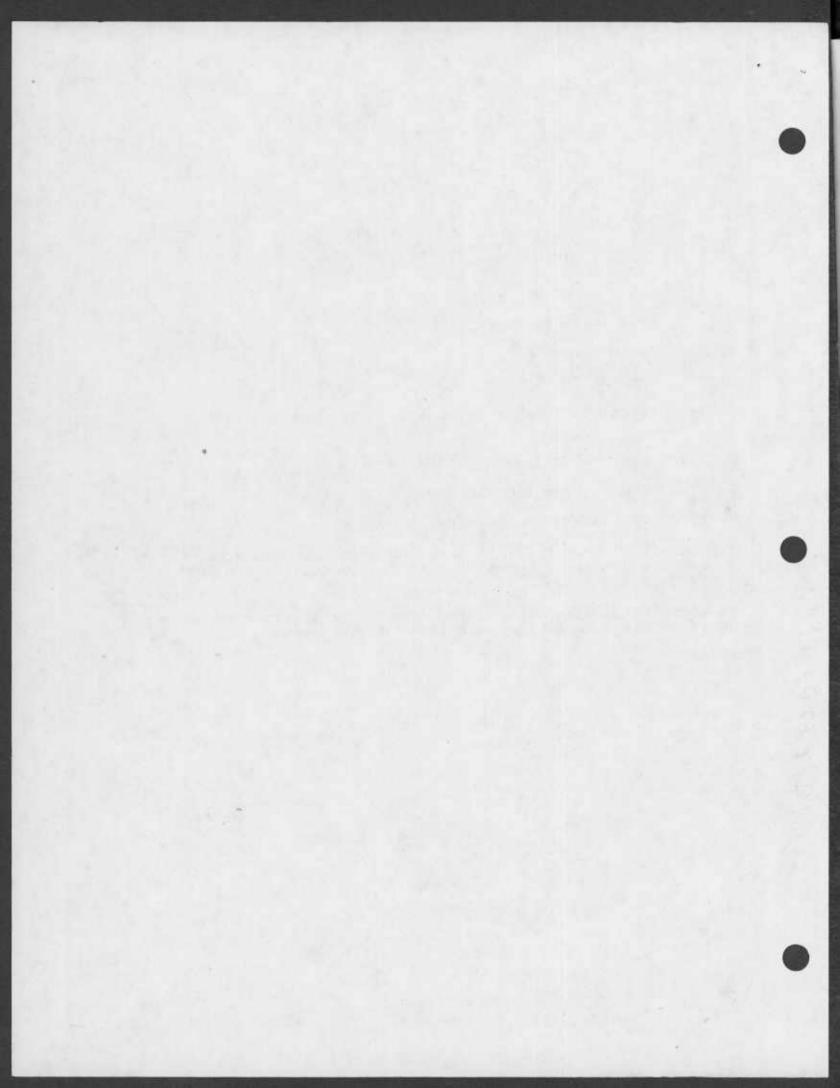
SUBJ: Materials for the October 21, 1987 Meeting

Enclosed are the following materials:

- 1. The minutes from the September 30 meeting.
- 2. The first draft of the final report.
- 3. The final report of the Maryland House of Delegates, Ways and Means Subcommittee on Tuition Assistance for Higher Education.

It would be greatly appreciated if you could review the draft. This will be the main topic of discussion.

Thanks!



TASK FORCE ON ALTERNATIVE FINANCING METHODS September 30, 1987 Meeting

<u>Minutes</u> The deferred armuity and pertilicates of deposit office

Members present:

Les Disharoon - Chairman

Curtis Anderson Charles Benton Paula Hollinger Mary Boergers

Ed Crawford

Pat Florestano

Doug MacDonald

Carol Petzold

Ben Shaver Michael Gerger (for Beth Garraway) Bob Harvey

Clarence Hicks Hoke Smith

Minutes:

The Chairman began the 4:00 p.m. meeting with a review of the decisions from the "Discussion Outline." The members agreed that they would pursue a savings type plan.

The Chairman then started to move through the Discussion Outline entitle "Savings Options." The Chairman asked Mr. Ed Crawford to explain each of the options (see attached, if not present at the meeting).

The Task Force concluded that a variety of savings vehicles should be offered to consumers as a means for saving for college. This would allow consumers to chose the vehicle most appropriate to their needs while promoting private sector involvement in two of the plans. Since the private sector will be in competition to offer a good higher education savings plan, there is the possibility for a higher rate of return.

The Andrews of Personal Principles Section 1997 Heating Section 1997 Hea

124 (244) 736

To waived a dilu pailmon .m.q doil add naped namelado add statement of the contract of the con

not manufact and appendix even of the rate and the state of the sale of the sa

The rest force consumers as a sease for saving to the constant state of the consumers as a sease for saving to the consumer to chose the vehicle college, this would ship of the constant season for the total constant to the constant season in the plane. Since the briests seator will be in companion to other a good higher addression cate of season the consumer to the plane.

The savings options agree upon are: (1) a deferred annuity; (2) a certificate of deposit; (3) a State zero coupon bond; and, (4) a federal EE bond. For details of these plans, please refer to the "Discussion Outline - Savings Plan."

All four of these plans maybe purchased by installments. The deferred annuity and certificates of deposit offer flexible maturity lengths and the initial contribution is taxed.

In order to make this package work, the Task Force agreed that a State education and marketing effort would be needed in order to gain maximum participation by Marylanders.

The next meeting of the Task Force will be October 21, 1987 at 4:00 p.m., 301 West Preston Street. The discussion will be centered on the State subsidy and a review of the first draft of a final report.

-6-

The savings options agree upon arm: (1) a deterred annuity: (2) a certificate of deposit: (3) a Disce zero coupon bond: and, (4) a federal he hand. For details of these plans, places refer to the "Discussion Outline - Newlone Plans.

The deferred annuity and certificates of deposit effect the deferred annuity and certificates of deposit effect that the initial contribution is

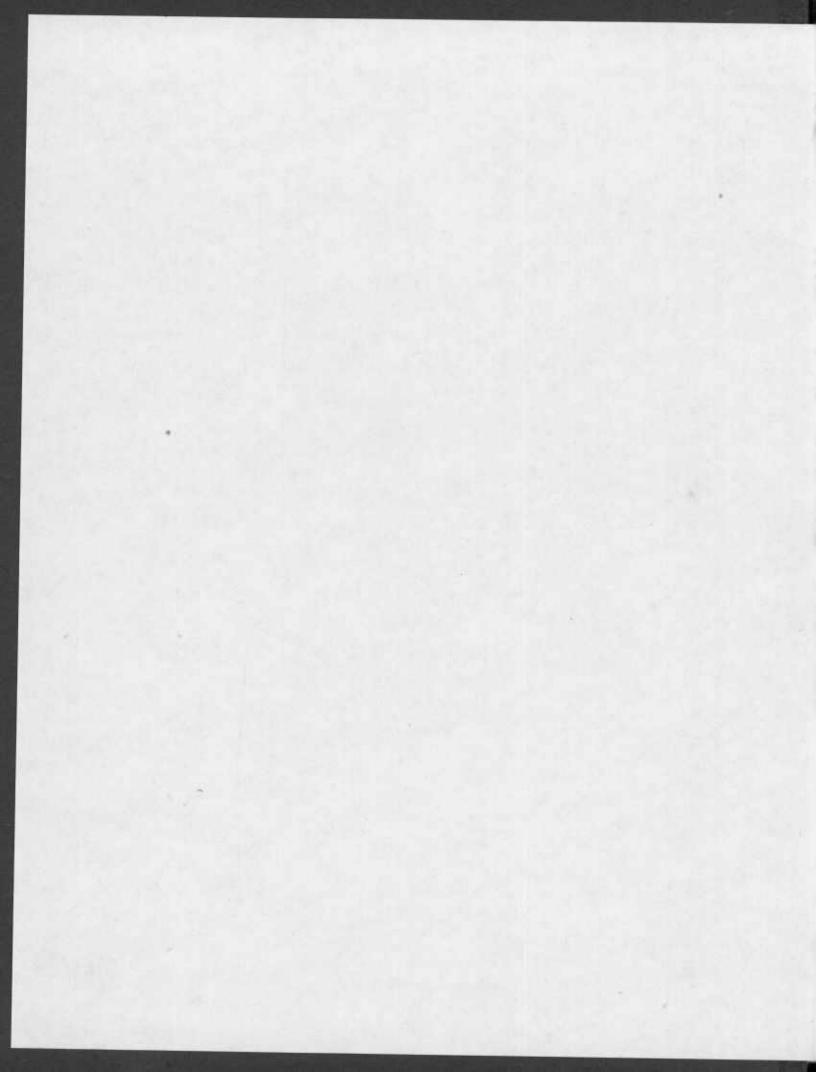
In order to make this protest work, the year force agreed that a start a start and naricaling effort would be needed in order to dain semisum perticipation by Marylanders.

The name analysis of the Teat Force will be detober 21, 1987 at 1:00 plan. 101 West Preston Street. The discussion of the first be desired on the State subsidy and a review of the first deat a teat to death.

T RECEIVED

NOV 1 1989

MD. STATE LAW LIBRARY



TASK FORCE ON ALTERNATIVE FINANC NG MEETING

July 7, 1987

Minutes

Members present:

Les Disharoon - Chairman

Charles Benton
Edwin Crawford
Patricia Florestano

Douglas MacDonald
Carol Petzold
Howard Seaggs, Jr.

Bennett Shaver

Hoke Smith

After welcoming remarks and review of the future agenda by the Chairman, the floor was opened to discuss the "Definition of the Problem." Concern was expressed about the definition of "college" and "middle income." The suggestion was made and agreed to by the members that the revised "Definition of the Problem" would restate the charge of the Task Force as described in the appointment letter. The revised Definition is attached.

Beth Garraway

Clarence Hicks

1, 60 0 C

Following this discussion, Dr. Sheldon Knorr, Commissioner of Higher Education, gave an overview of the status of financial aid and college costs in Maryland. In summary, Dr. Knorr explained that rising tuition costs and decreasing financial aid programs are placing an increased financial burden on "middle class" families. This gap between tuition and financial aid is forcing students to seek outside sources of financial assistance or forcing the students to chose not to go to college. Even though the individual institutions are increasing their efforts in scholarships and student employment, their increased activity is causing a corresponding increase in tuition. Dr. Knorr reiterated that the "gap" needs to be closing.

TASK FORCE ON ALTERNATIVE COLLEGE FINANCING MEETING July 23, 1987 Minutes Members present: Les Disharoon - Chairman Clarence Hicks Curtis Anderson Charles Benton Paula Hollinger Doug MacDonald Ed Crawford Carol Patzold Pat Florestano Beth Garraway Ben Shaver Robert Harvey Hoke Smith The first item on the agenda was a discussion on the statement of the problem. The revisions were approved by the committee members (see attached sheet). Following this was a presentation/discussion by Lynne Schaefer, President, Michigan Education Trust and Lutz Berkner, New Jersey Board of Higher Education. Highlights of the Michigan discussion are: a large increase in student financial aid preceeded their plan. goal of the Governor was to assure access for all 0/11/2-23-87 students who wanted to attend a college. market research and discussion groups were organized to investigate interest in the program; found most were concerned with a "guarantee" of tuition, not the tax deduction. Two options: low-cost option - guarantee tuition at 1) a state college less than 105% of average tuition. high-cost option - guarantee tuition at a 2) state college greater than 105% of average tuition. if student attends an out-of-state institution, they are guaranteed only the average tuition cost of a state college.

- refund policy:
 - 1) get back what you paid in
 - 2) get back average tuition
- payment plans would be in a lump sum on a payroll deduction plan over a one-two year period only.
- State has assumed risk based on optimistic rates of return.

New Jersey discussion highlights:

- credits will be bought at the current price.
- state guarantees 90% of the tuition cost. Institutions receive a large proportion of tuition income from non-traditional students (ones that would not participate in the program). Therefore, institutions are not bearing a lot of risk with a 90% guarantee.
- penalize people who pull out early.
- concentrated on undergraduate programs.
- the state has a history of high tuitions, but it provides a good grant program.

For those not present, enclosed is the materials from Michigan.

Members Present:

Les Disharoon-Chairman

Mary Boergers
Doug MacDonald
Carol Petzold

Beth Garraway

Hoke Smith Robert Harvey



After accepting the minutes from the July 23, 1987 meeting, the Chairman introduced Dr. Richard Anderson and Dr. Ross Hodel. Dr. Anderson presented the Massachusetts College Savings Plan and Dr. Hodel presented the Illinois Savings

REVIEW-DR. ANDERSON'S PRESENTATION

Overall, there are two reasons to transfer the risk of a college savings plan. The first is the "time horizon" issue. The time line for investments is between 5 and 15 years. Thus investment alternatives are limited. The other reason is the institutions. Institutions are better able to take risk since they can project more than 10 years, the institutions have a large pool of assets and there is a potential tax advantage.

Problems are attached when transferring the risk. The first is choice. If there is greater choice, there will be less problems. Second is the problem of accommodating choice with risk and rewards with institutions. Third is the tax issue. Forth is pricing of the package and fifth is the possibility of a good investment strategy.

The Massachusetts College Savings Plan includes independent colleges/universities. The Proposal suggests that two plans take place simultaneously. The first is Tuition Prepayment Certificates. The Commonwealth will form a nonprofit trust to issue tuition certificates in denominations of \$50 and higher. The certificates may be redeemed at participating public and independent institutions for specific fractions of a year of tuition and fees. Since the tuition charges at colleges differ, a given certificate will buy differing amounts of tuition and fees at the respective campuses. The certificates are denominated in years of tuition, however, so the family

state agency, contracting with a private investment firm, or allow parents to choose their own investments.

The Task Force needs to balance desirable features from the parents and the states perspective.

The dittos (NOTE: see attached if not present at the meeting) show the four approaches examined by Illinois-a trust approach; an education IRA approach; a tuition certificate approach; and the Illinois Savings Bond approach. The Governor of Illinois is signing the savings bond bill into law.

Under the Savings Bond Bill, Illinois would issue zero coupon college savings bonds at one of their bond sales. These bonds would be sold at a discount and interest paid at maturity. The income would be exempt from state and federal taxes. The sales would be handled by existing groups. There is also a bonus feature. If the bond holder can show evidence that the proceeds were used at a state higher education institution than the holder would receive a premium of 1/4 to 1/2%. The bonds are exempt from needs based financial aid analysis and there are no penalties for early withdraw.

This program is not perfect. First, the purchaser assumes that the yield will increase faster than tuition. Second, if the denominations of the bonds are less than \$5,000 there may be an increase underwriting costs. Thirdly, the State will have the increase administrative cost of the College Savings Plan Advisory Council.

Dr. Hodel concluded by stressing that all issues need to be weighted and the needs of the individual and the state need to be balanced.

REVIEW-DISCUSSION

The discussion centered around specifics of each of the plans. The question was raised as to the advantage of buying bonds through these programs instead of through the market place. The advantages are: bonds through the program are tax exempt; bonds are exempt from the needs analysis; there is a tax exemption; they are issues in different denominations; there are various durations; and the form additional interest.

Another question was raised as to the importance of premiums. Dr. Anderson stated that it may raise participation by 1%. Dr. Hodel had no firm handle on the premium impact.

Who are the plans trying to reach? Dr. Anderson and Dr. Hodel both agreed that the plans were aimed at middle

income families while acknowledging that no plan was going to pleas everyone.

The question was raised as what is covered by these plans? Massachusetts covers all required fees and for Illinois, it does not matter.

Finally, the Task Force asked both speakers their reaction to the federal proposal. Dr. Hodel felt that the proposal would not go anywhere because of the fiscal implications. Dr. Anderson felt that the Bush proposal is cheap now but expensive in the long run.

The next meeting of the Task Force will be September 2, 1987 at 4:00 in the Governor's Conference Room.



STATE OF MARYLAND EXECUTIVE DEPARTMENT

TO:

Task Force Members

DATE September 8, 1987

FROM:

Gayle Fink

SUBJECT:

Meeting Dates

This is just a reminder that the next Task Force meeting will be held on September 16, 1987 at 4:00 p.m. in the Governor's Conference Room, 301 West Preston Street, Baltimore, Maryland.

This plan should but assume any changes in Federal tax law or any invertable relings.

The remaining meeting dates are as follows:

September 30, 1987 October 21, 1987 October 29, 1987



Task Force on Alternative College Financing Methods

Minutes

September 2, 1987 Meeting

Members Present:

Les Disharoon-Chairman

Mary Borgers Clarence Hicks
Ed Crawford Doug MacDonald Pat Florestano Beth Garraway

Carol Petzold Ben Shaver

Discussion:

After accepting the notion that it is legally possible to issue zero coupon bonds, the Chairman began to take the Members through the "Discussion Outline" (See Attached if not present at the meeting).

The first step was to agree upon the basic premised for discussion. After much review, the following premises were agreed upon:

- This plan is designed to encourage people to save 1. money for college.
- This plan should encourage enrollment in Maryland 2. institutions.
- This plan will not diminish existing financial aid 3. programs.
- This plan must include quantitative benefit to the 4. participants.
- This plan should not assume any changes in Federal 5. tax law or any favorable rulings.

After accepting these premises, the members then discussed "Does the plan have a guarantee?" The sense of the group was that it is not likely that the Task Force will recommend that there be a substantial guarantee included in the plan. If necessary though, one may be added at a later date.

"Who should be able to contribute?" was the next issue. The Members decided that anyone-parents, relatives, corporations, etc.-should be able to contribute.

While reviewing the issue of risk sharing, the Members decided that the institutions should not pay a direct subsidy and that a subsidy should be thought of as a direct tax payer subsidy or a State subsidy in some form.

Other issues discussed were 1) the need to have the savings from these plans exempt from the needs analysis for financial aid, and 2) would the State issue zero coupon bonds in the first place considering changes in the Federal tax laws. Ed Crawford, Jim Gentry, and Lucy Lapovsky are going to review this issue.

The Task Force will continue through this outline at the next meeting on September 16, 1987.

Hen no Merghese connectationed distillation on a description

the Tark Poses them continued through the ! "Discussion outline". [Uses the Attached Devised version At Bot in attached outside version At Bot in

The members decided i) there would be a subsidy: hi the level of admitty would be definable relative to participation in the plant and, 2) the subsidy would so

Task Force on Alternative Financing Methods

Minutes of Meeting

September 16, 1987

Members Present:

Les Disharoon-Chairman

Ed Crawford
Pat Florestano
Michael Gerber (attending for Beth Garraway)
Clarence Hicks
Doug MacDonald
Carol Petzold

Minutes:

Meeting was called to order at 4:15 p.m. Floor was turned over to Ed Crawford who distributed a letter expressing his concerns about the procedures involved in issuing zero coupon bonds. The Chairman thanked Mr. Crawford and asked if those issues could be addressed later when the group begins to formulate a plan. Mr. Crawford agreed.

Next, the Chairman reviewed the Memo from Assistant Attorney General Mary Preis. The memo concluded that there are no Maryland constitutional limits on issuing zero coupon bonds.

The Task Force then continued through the "Discussion Outline". (See the attached revised version if not in attendance at the last meeting.)

Risk Sharing

The members decided 1) there would be a subsidy; 2) the level of subsidy would be definable relative to participation in the plan; and, 3) the subsidy would a) quantifiable relative to some basis and b) controllable.

Transferability

The Task Force concluded that the benefit from participating in this plan can be transferred among members of the family unit only.

Return of Contributions

The result of the discussion indicated that there would be no winners and losers in the plan. Everyone who participates would at least have their principal returned.

Coverage

The conclusions were 1) all students-undergraduate, graduate, proprietary, full-time, part-time-would be eligible; 2) the eligible costs are definable as the cost of attendance at the eligible institution; and, 3) all accredited post secondary institutions both in and out of state are considered eligible.

Limits on Participation

The limits on participation would be defined by the cost cap to the state.

Administration

The Task Force agreed that there would be some administrative costs involved and there would be an oversight entity.

Other Questions:

"How do we deal with participants moving into and/or from another state?"

The conclusions were 1) if a family moves into Maryland, they would participate for the time that they live in Maryland; 2) if the family moves out of Maryland, the child can still participate but would not receive in-state tuition if they chose to attend a Maryland institution; 3) if the child does not attend a Maryland institution, the child would be treated as if he/she did not go to college; and, 4) if the family moves out of state, the family can still continue to participate in the plan or the may terminate the plan.

"Should colleges have the opportunity for dollar benefit from the plans?"

The answer was simply no.

"Can the State issue zero coupon bonds?" YES

"Are there any constitutional problems with selling zero coupon bonds?" NO

"Will legislation be needed to sell zero coupon bonds?"

YES-Legislative authorization would be required to sell bonds at a discount.

"Will new marketing arrangements be required for the zero coupon bonds different from the state's coupon bonds?" PROBABLY

The next meeting of the the Task Force is scheduled for September 30, 1987. The members will discuss the concepts of a Maryland Savings Plan and review the beginnings of a preliminary draft report.

TASK FORCE ON ALTERNATIVE COLLEGE FINANCING METHODS

October 21, 1987 Meeting

Minutes

NOV 2 1987

Members present:

Les Disharoon-Chairman

Mary Boergers
Ed Crawford
Pat Florestano
Michael Gerber (For Beth Garraway)
Bob Harvey

Clarence Hicks Paula Hollinger Doug MacDonald Carol Petzold

Minutes:

The Chairman called the meeting to order at 4:00 P.M. The minutes of the September 30 meeting were read and approved without correction.

The Chairman opened the floor to a review and discussion of the second draft of the Report of the Governor's Task Force on Alternative Financing Methods, dated October 16, 1987. Several suggestions as to style and content were discussed and agreed to by the members of the Task Force. These changes will be incorporated in the third draft of the report.

A motion was made by Delegate Petzold, second by Dr. Florestano, that the final copy of the report contain a recommendation that the State provide a 1% per year subsidy for the principal amounts saved and utilized to finance the costs of a post secondary education in a Maryland institution of post secondary education. The motion passed unanimously.

The Chairman directed that a copy of the third draft of the Report be circulated by mail to all members for review and comment prior to preparation of the final report to the Governor. The Chairman observed that he saw no need for further meetings of the Task Force at this time.

The meeting was adjourned at 5:15 P.M.





GOVERNOR'S TASK FORCE

TO

STUDY ALTERNATIVE COLLEGE FINANCING METHODS

Report to the Governor
Les Disharoon - Chairman

November, 1987

American Mational

Executive Director, Havyl

Frenident.

Towson State University

Governor's Task Force to Study Alternative College Financing Methods MEMBERS

GOVERNOR'S TASK Force to Study

Les Disharoon
Chairman of the Board &
President, Monumental Corporation

Curt Anderson Delegate, Maryland General Assembly
Baltimore City

Raymond Beck Senator, Maryland General Assembly Baltimore & Carroll Counties

Charles L. Benton Secretary, Dept. of Budget & Fiscal Planning

Mary Boergers Delegate, Maryland General Assembly,
Montgomery County

Edwin Crawford Senior Vice President, Baker, Watts & Co.

Patricia Florestano Vice President for Governmental Relations, University of Maryland

J. Elizabeth Garraway President, Maryland Independent College and University Association

Robert Harvey Vice Chairman of the Board,
Maryland National Corporation

Clarence M. Hicks Director, Student Financial Aid Community College of Baltimore

Paula C. Hollinger Senator, Maryland General Assembly Baltimore County

Douglas MacDonald Executive Director, Maryland State Scholarship Board

Carol S. Petzold Delegate, Maryland General Assembly, Montgomery County

Howard Scaggs, Sr. Chairman of the Board,
American National Building &
Loan Association

Bennett H. Shaver Executive Director, Maryland Retirement & Pension Systems

Hoke L. Smith President,
Towson State University

Governor's Task Force to Study Alternative College Financing Methods

Professional Staff

Laslo V. Boyd Executive Department, State of Maryland

Gayle M. Fink Executive Department, State of Maryland

Lucie Lapovsky

Director, Division of Finance
and Facilities, Maryland
State Board for Higher Education

Raymond Wright Budget Analyst, Department of Budget & Fiscal Planning

TABLE OF CONTENTS

		Page
Charge to	o the Task Force	. 5
Executive	e Summary	. 6
Introduct	tion	. 7
College (Costs and Financial Aid in Maryland	. 8
Alternat	ive Financing Approaches	. 15
Evaluation	on Criteria	. 16
Savings (Options for a Maryland Plan	. 17
State In	terest Subsidy	. 18
Cost the	to State	. 18
Administ	cration	. 22
Benefits	s to the State	. 22
Appendic	ces	
A.	Appointment Letter	. 24
в.	New Jersey Information	. 27
c.	Massachusetts College Savings Plan (Draft)	. 46
D.	Illinois Information and Legislation	. 81
E.	Assistant Attorney General's Letter on Zero Coupon Bonds	. 99

Governor's Task Force to Study Alternative College Financing Matters

Charge to the Task Force

The Task Force to Study Alternative College Financing Methods was established on May 27, 1987 by Governor William Donald Schaefer. Provided in Appendix A is a copy of the appointment letter to Les Disharoon.

The Charge of the Task Force was "to undertake an examination of alternative methods for financing a college education, with particular emphasis on approaches which spread the burden of payment over a specified period of time."

The Task Force should

- Study the efforts of other states that are dealing with this issue;
- 2) Complete an analysis of the different approaches taking into account risks and liabilities to both the State and the family; and
- 3) recommend whether there are new approaches which will assist students and families to afford college without eroding the traditional methods of financial support which are currently available.

The report of the task force is to be submitted to the Governor and the Maryland General Assembly on November 1, 1987.

The transfer of the second sec

Executive Summary

The Task Force to Study Alternative College Financing Methods sought to investigate various options including tuition trust funds, tuition IRA's, and a variety of other plans that would encourage increased saving for a college education. At the completion of discussion, the members decided on the following recommendations:

- To offer Maryland residents a variety of savings options in a "Higher Education Savings Package."
- The four investment vehicles to be included in this package are:
 - a) single premium deferred annuities;
- b) certificates of deposit;
 - c) State zero coupon bonds, and
 - d) Federal EE Bonds.
- 3) To provide an incentive for people to save for their children's college education, the State should provide an interest subsidy on the principal amount saved. Specifically, a State subsidy should equal one percent for each year the principal is saved up to a maximum of 14 years. This subsidy will be payable only if the participant attends a Maryland institution.
 - 4) A State marketing and education effort needs to be embarked upon in order to gain maximum participation of Marylanders.

The task force assessed the total fiscal impact on the State would be an annual cost of \$15.3 million after a full twenty year phase-in period.

Further explanation of these recommendations can be found in the text of this report.

Introduction

Tuition prepayment and incentive plans to encourage savings for college are being discussed in most States. As of September, 1987, six States have enacted prepayment plans: Florida, Indiana, Maine, Michigan, Tennessee and Wyoming. Wyoming is the only state where the plan is currently operating. Two states, Illinois and North Carolina, have enacted savings plans.

During the 1987 Legislative session, four bills were introduced in the Maryland General Assembly concerning college tuition prepayment or savings plans. The legislation generated much interest and raised many questions which needed further study.

On May 27, 1987, Governor Schaefer appointed a Task Force composed of Legislators, financial experts, and educators to study alternative college tuition financing methods, and report back to him and the General Assembly by November 1, 1987.

The Task Force met to study alternative college financing methods beginning on July 7,1987. The first order of business was to specify the mission of the Task Force. The following definition was accepted as a basis for the Task Force's work.

"The rapidly rising costs of higher education are threatening students and families of college-age children with significant economic expenses. Due to federal financial aid cutbacks and the escalating costs of higher education, alternative and innovative financing plans for colleges must be explored.

The purpose of the Task Force is to undertake an examination of alternative methods for financing a college education with particular emphasis on approaches which spread the burden of payment over a time period prior to the completion of post secondary education. The analysis of different approaches should take into account risks and liabilities to the State, the family and the institutions of higher education.

The goal of the final report is to recommend whether there are new approaches which will assist students and families to afford college without eroding the traditional methods of financial support which are currently available."

Once the mission was established, the Task Force began with an overview of college costs and availability of financial aid in Maryland. At subsequent meetings, the members heard from experts representing Michigan, New Jersey, Illinois and Massachusetts describe a variety of approaches to encourage saving for a college education. After review of these approaches, discussion centered upon 1) what components were necessary to formulate a plan for Maryland, and 2) developing a set of recommendations.

College Costs and Financial Aid in Maryland

Between the 1980-1981 and the 1985-1986 academic years, tuition and fees increased 44 percent at Maryland public 2 year institutions, 65 percent at Maryland public 4 year institutions, and 81 percent at Maryland independent institutions. When comparing these figures with an increase of 31 percent in Maryland per capita and a 27 percent increase in the consumer price index, one finds a widening gap between college costs and a persons ability to pay to attend a college or university. (See Table 1)

During this same period, financial aid increased by 47 percent from \$126 million to \$185 million. Average awards increased 33 percent from \$1,601 to \$2,214. The increase in the average award amount is due to higher costs and higher ceilings on the awards. (See Table 2.)

An analysis of financial aid by source of funds in constant dollars between 1980-1981 and 1985-1986 reveals that federal funds for undergraduate financial aid decreased by 3.5 percent while State funds increased by 0.6 percent. During the same period, institutional aid increased by 70.6 percent and aid from private sources increased by 56.6 percent. (See Figure 1)

Figures 2, 3 and 4 reveal that although institutional and private sources of financial aid have increased substantially, the gap between college costs and available aid continues to grow.

Once the mission was astablished, the Tank Force began with

Table 1 Trend in Tuition and Fees, Per Capita Income, and Financial Aid in Maryland

1980-81 to 1985

(1) Source: U.S. Dept. of Commerce, Bureau of Economic Analysis

(2) Data for Undergraduate Students; Excludes independent Postsecondary Institutions

Note: Data on Average Award for 1980-81 are estimates.

jmb/x1/a1.150

Haryland
Trend in Student Financial Aid By Funding Source
1980-81 to 1985-86

***************************************		***********	***********		COLUMN CHARLES				
	1	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1985-86 Dollar Change Percent Change	Percent Change
Federal		\$ 97,056,171 \$ 109,	109,285,957 \$		97,705,577 \$ 103,646,955 \$ 111,656,176 \$ 120,869,968 \$	111,656,176 \$	120,869,968 \$	23,813,797	24.54%
State	••	6,921,162 \$.7,377,990 \$	7,301,151 \$	7,301,151 \$ 7,600,305 \$	8,878,663 \$	8,878,663 \$ 8,981,797 \$	2,060,635	29.77%
Institutional		17,747,652 \$	20,821,733 \$	24,366,253 \$		29,714,345 \$ 32,766,571 \$	46,046,797 \$	28,299,145	159,45%
Private	•	4,562,481 \$	4,562,481 \$ 4,836,456 \$	6,007,508 \$		6,754,076 \$ 9,203,861 \$ 9,218,197 \$	9,218,197 \$	4,655,716	102.04%
10131		126,287,466 \$	142,322,136 \$	135,380,489 \$	\$ 126,287,466 \$ 142,322,136 \$ 135,380,489 \$ 147,715,681 \$ 162,505,271 \$ 185,116,759 \$	162,505,271 \$	185,116,759 \$	58,829,293	46.58%

			Average	Average Award, 1981 to 1985-86	985-86			
			and a	Undergraduates				
-1861		1981-1982	1982-1983	1983-1984	1984-1985	1985-1986	Dollar Change	Percent
Grants	•	1,111 \$	1,118 \$	1,245 \$	1,363 \$	1,598 \$	487	43.80X
Loans	41	2,082 \$	1,755 \$	1,729 \$	1,962 \$	2,121 \$	38	1.85X
Scholarships	44	\$ 929	\$ 189	718 \$	8 528	8 978	122	35.25%
Employment	•	\$ 106	\$ 189	\$ 086	1,010 \$	1,104 \$	203	22.58%
Total \$ 1.		1.805 \$	1.724 \$	1.795 \$	1,903 \$	2,214 \$	609	22.64%

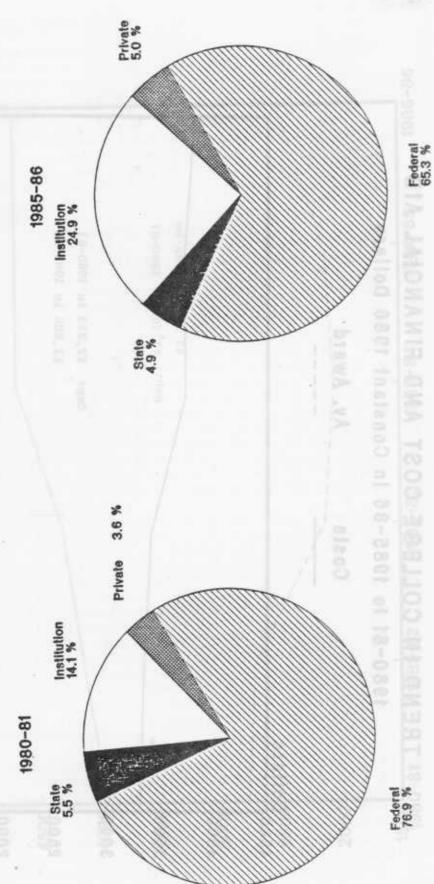
Source: S-5 REGIS Date

jmb/fatab1/6-23-87

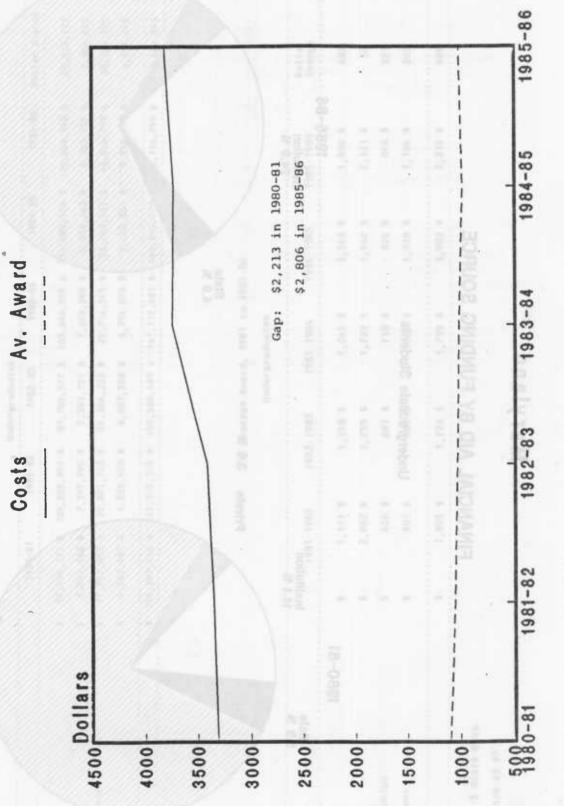
Maryland

FINANCIAL AID BY FUNDING SOURCE

Undergraduate Students

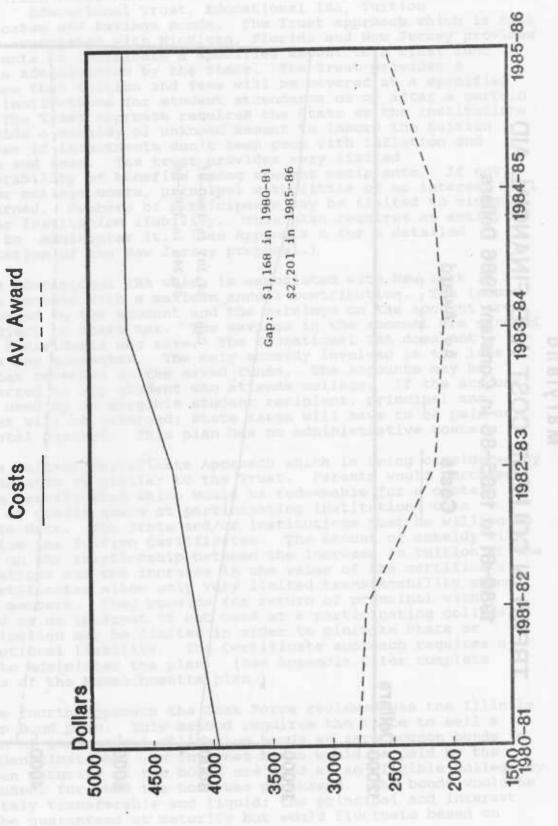


TREND IN COLLEGE COST AND FINANCIAL AID 1980-81 to 1985-86 in Constant 1986 Dollars Maryland



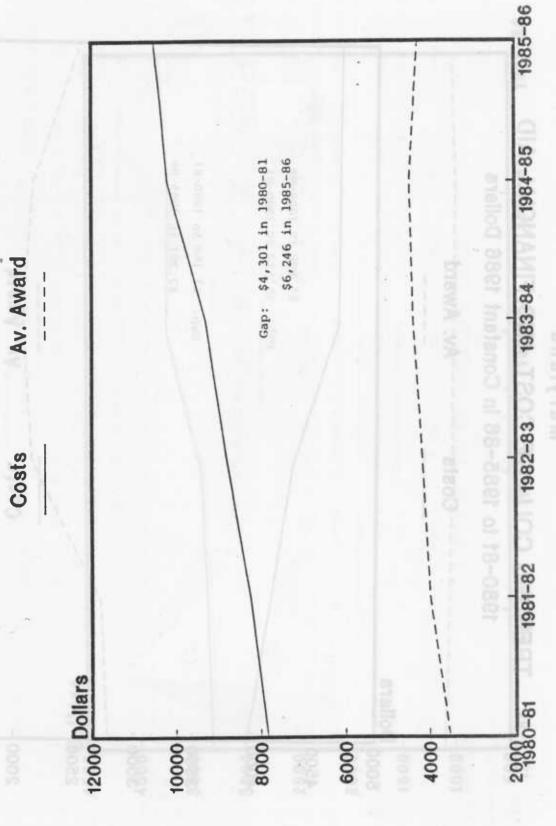
FT Undergraduates - Community Colleges

TREND IN COLLEGE COST AND FINANCIAL AID 1980-81 to 1985-86 in Constant 1986 Dollars Maryland



FT Undergrad.Res.- Public 4-year Institutions

TREND IN COLLEGE COST AND FINANCIAL AID 1980-81 to 1985-86 in Constant 1986 Dollars Maryland



FT Undergraduates - Independent Institutions

Alternative Financing Approaches

The Task Force considered four basic educational savings Educational Trust, Educational IRA, Tuition Certificates and Savings Bonds. The Trust approach which is most closely associated with Michigan, Florida and New Jersey provides for parents to contribute a specified amount to a trust fund which is administered by the State. The trust provides a quarantee that tuition and fees will be covered at a specified set of institutions for student attendance on or after a certain date. The Trust approach requires the State or the institutions to provide a subsidy of unknown amount to insure the tuition guarantee if investments don't keep pace with inflation and tuition and fees. The trust provides very limited transferability of benefits among student recipients. If not used for college costs, principal with little or no interest will be returned. Numbers of participants may be limited to minimize State or institution liability. This plan requires an entity or agency to administer it. (See Appendix B for a detailed presentation of the New Jersey proposal.)

The Educational IRA which is associated with New York is a savings account with a maximum annual contribution. The income contributed to the account and the earnings on the account are not subject to State tax. The savings in the account are managed by the individuals who save. The Educational IRA does not include any guarantee. The only subsidy involved is the loss of State tax revenues on the saved funds. The accounts may be transferred to any student who attends college. If the account is not used by an eligible student recipient, principal and interest will be returned; State taxes will have to be paid on the total account. This plan has no administrative costs.

The Tuition Certificate Approach which is being considered by Massachusetts is similar to the Trust. Parents would purchase tuition certificates which would be redeemable for a certain number of credit hours at participating institutions on a specific date. The State and/or institutions must be willing to subsidize the Tuition Certificates. The amount of subsidy will depend on the relationship between the increase in tuition at the institutions and the increase in the value of the certificate. The certificates allow only very limited transferability among family members. They provide for return of principal with limited or no interest if not used at a participating college. Participation may be limited in order to minimize State or institutional liability. The Certificate approach requires a board to administer the plan. (See Appendix C for complete details of the Massachusetts plan.)

The fourth approach the Task Force reviewed was the Illinois Savings Bond plan. This method requires the State to sell a portion of its general obligation bonds as zero coupon bonds in small denominations. An interest bonus would be paid by the State on maturity if the bonds are used at an eligible college by the student for whom the bond was purchased. The bonds would be completely transferable and liquid; the principal and interest would be guaranteed at maturity but would fluctuate based on

market conditions prior to maturity. This approach would require some administration in Maryland to insure a supply of low denomination zero coupon bonds. (See appendix D for complete details including a copy of Illinois Legislation.)

Evaluation Criteria

In order to evaluate various approaches set forth above, the task force agreed on a set of premises to guide its deliberations in developing a plan for Maryland. These premises, in no order of importance, are as follows:

- The plan should be designed to encourage people to save money for college.
- The plan should encourage enrollment in Maryland institutions.
 - The plan should not diminish existing financial aid programs.
 - The plan should include quantitative economic benefits to the participants.
 - The plan should not assume any changes in Federal tax law or any favorable tax rulings; but it must be flexible relative to future potential changes.
- The plan should be applicable to periods of enrollment increases and decreases as well as to changing demographics among the college population.
 - The plan should be applicable to all students full and part-time, undergraduate and graduate.
- The plan should provide coverage for all postsecondary education costs consistent with those established as "eligible costs of attendance" consistent with Federal guidelines.
- The plan should be applicable to all institutions of postsecondary education approved/licensed to operate in Maryland.
- The plan should provide for participation of all eligible students; limits should be imposed only when necessary to limit the cost to the State.
- The plan should insure that at a minimum all contributions will be returned if the savings are not used by an eligible student at an eligible institution of postsecondary education.
- The plan should have some general taxpayer subsidy which is quantifiable and definable relative to participation in the plan.

- The plan should have some form of cap on costs to the State.
 - The plan should not put postsecondary institutions at financial risk.
 - The plan should provide for mobility of participants coming into or leaving Maryland.

Given the above parameters, the Task Force concluded that it could not support a plan with a tuition guarantee because the level of State subsidy is unknown and undeterminable in advance. In addition, the institutions stated that they were unable to assume the risks inherent in a tuition guarantee because as with the State the risk is unknown and undeterminable. In addition, all of the resources of the institutions are committed.

Savings Options for a Maryland Plan

The Task Force reviewed four savings vehicles; single premium deferred annuities, certificates of deposit, State zero coupon bonds and Federal EE bonds. (See Appendix E.) Each was analyzed relative to certain criteria. In terms of the State zero coupon bonds, it is assumed that these would be offered in small denominations with no redemption provisions.

In all four cases, the principal can be guaranteed at maturity. The guarantee of the principal has different degrees of credibility prior to maturity depending on which savings vehicle and institutional provider are chosen. All of these savings vehicles would be insured or guaranteed by the appropriate agency: FDIC, FSLIC, State, Federal, Life and Health Guaranty Fund, etc. The yield will vary and the relationship of yield among the vehicles also will vary. The certificates of deposit, zero coupons and Federal EE bonds are completely liquid while the deferred annuity has very limited liquidity.

All four of the savings plans considered may be purchased in units or installments. The deferred annuity and certificate of deposit have flexible maturity lengths while the Federal EE bonds mature in 12 years and the State zero coupon bonds cannot exceed 15 years. In all savings vehicles discussed, the initial contribution is made with post-tax dollars. The internal build-up is tax deferred until receipt on the deferred annuity and Federal EE bonds while it is taxed annually on the Certificate of Deposit. There is no tax liability on the interest accumulation of the State zero coupon tax exempt bond. The interest accumulation on the Federal EE bond is subject only to federal tax; it is exempt from State and local taxes.

Legislation is probably required to offer the State zero coupon bonds in a form marketable to the small saver. The deferred annuity would be offered by insurance companies, the certificate of deposit by banks and Savings and Loans, and the Federal government currently markets and sells its EE bonds. State administration will be required only for the State zero coupon bonds.

All of the savings vehicles will require an education and marketing effort by the State in order to gain maximum participation by Marylanders. It is anticipated that the private market will respond with the development of special savings products suitable to this initiative in Maryland. Competition among vendors should lead to the development of superior products. Further, it is expected that much of the publicity and marketing of these products will be handled by the private sector.

State Interest Subsidy

In order to provide an incentive for people who are not currently saving for their children's college education and to encourage those who are saving to increase the level of their saving, the Task Force recommends that the State provide a simple interest subsidy on the principal amount saved. In order to encourage people to start saving when their children are young, the subsidy should be greater the earlier the savings begins.

specifically, the Task Force recommends that a State subsidy equal to 100 basis points or one percent be provided for each year the contributed principal amount is saved up to a maximum of 14 years. The State subsidy will only be paid if the student uses the savings to attend an institution of postsecondary education in Maryland. The subsidy will be necessary to make the savings vehicles attractive. The State subsidy will only be paid if the participant attends a Maryland institution.

Cost to the State

Cost estimates for this program are based on a series of assumptions which are delineated in Table 3. Based on data collected by Roper for the National Association of Independent Colleges and Universities, it is assumed that currently about half of all students finance their college education in part with savings. It also is assumed that among those that save, the average level of savings is \$552 a year and that the savings were started when the prospective students were four years old. This provides, at these savings rates, \$144.4 million in savings annually to be used for tuition, fee, room and board or commuting costs by the 150,000 full-time equivalent students currently attending postsecondary education in Maryland. This is equivalent to about 20 percent of these costs annually.

The program will be fully phased-in in 20 years. It is assumed that people begin saving when their children are four years old and save until they are eighteen and begin college. It is further assumed the total amount of saving available to finance college tuition fees and living costs will increase from the current level of \$144 million to \$204.5 million in twenty years, a 40 percent increase attributable to this program. The annual costs to the State for the interest subsidy are listed below. In addition there will be administrative costs for advertising and coupon registration of about \$50,000 the first year and about \$25,000 in future years. The State's maximum liability for the interest subsidy will be reached in Year 20 at \$15.33 million.

TABLE 3

FISCAL ESTIMATE FOR TUITION SAVINGS PLAN

 Enrollment of Maryland residents (full-time equivalent students) at Maryland institutions of postsecondary education in FY 1987:

Independent Institutions:	13,000
Community Colleges: Four-Year Publics	64,000 64,000
proprietary	9,000 150,000 FTES

- 2. Estimated cost to attend college in FY 1987:
 - a. Tuition and required fee

Community Colleges	S	1,000	X	64.000	=	\$104,000,000 64,000,000 108,800,000 18,000,000 \$294,800,000
--------------------	---	-------	---	--------	---	---

- b. Normal living expenses/room and board \$3000 X 150,000 = \$450,000,000
- \$744,800,000 C. Total Cost
- 3. Financial Aid available for undergraduate and graduate students:

Grants	\$180,000,000
Loans	118,000,000
Total	\$298,000,000

4. Funds required from current income, savings and other borrowing to support FY 1987 postsecondary education:

Total Total	\$744,800,000 \$298,000,000 \$446,800,000

- 5. Best estimates of saving NAICU study
 - a. Median Annual Saving of Savers = \$517 a year in 1983-84
 Updated to FY 1987: \$552
 - b. Half of parents of college prospects are currently saving: 150,000 X .5 = 75,000 savers
 - c. Majority of savers start saving when their oldest child is 4.

d. Estimate of principal saved for college:

\$550 a year

14 years of saving \$7700 total savings

4 years of college

\$1925 available savings per year

X 75,000 savers

\$144,375,000 savings principal available per year for college

If savings for college for the child total \$144.4 million a year, this will mean that 20 percent of total tuition, fees and living costs would be financed from parental savings.

to program the State industry will waty in Laid it the State of

Flow of Saving - see next page

The program Odd total battly introduced in Angelog was the in-

TAME 19			11.4 123.5	12.0 11.4 113.2	12.6 12.0 11.4 102.9	13.2 12.6 12.0 11.4	13.9 13.2 12.6 12	14.6 13.9 13.2 12	13.9	14.6 14.6 14.6 13	14.6 14.6	14.6 14.6	14.6 14.6	14.6 14.6	14.6 14.6 14.6 14	14.6 14.6	14.6 14.6	14.6	14.6 14.6	14.6 14.6 14.6 14	* **
2 6 7 8 2					.9	.4 92.6	12.0 11.4	12.6 12.0	13.2 12.6	13.9 13.2			14.6 14.6					14.6 14.6		14.6 14.6	***
7 6							82.3	11.4 72.0	12.0 11.4	12.6 12.0	13.2 12.6		14.6 13.9	14.6 14.6	14.6 14.6		14.6 14.6	14.6 14.6	14.6 14.6	14.6 14.6	4 44 0404
4									61.7	11.4	12.0	12.6	13.2	13.9	14.6		14.6	14.6	14.6	14.6	
의		Note: Assu	for student	and \$	assumes million	fuple up to	MIII			52.4	11.4	12.0	12.6	13.2	13.9	14.6	14.6	14.6	14.6	14.6	411/20
7 1		Assumes a	tudents wh	and \$113.2 mill	assumes that the	a new le-	be achiev				41.1	11.4 30	12.0 11	12.6 12	13.2 12	13.9 13	14.6 13	14.6 14	14.6 14	14.6 14	
- 11 -		ill savings	ted. Inus,	in four year	0, the year,	12.0 million vel of annua	ed six years					30.8	11.4 20.5	12.0 11.4	12.6 12.0	13.2 12.6	13.9 13.2	14.6 13.9	14.6 14.6	14.6 14.6	
स स	and land and and land	on it in FT 1989, the year the	id college in one year, 1990	rs, 1993. Further, this table	after the program has been	l savings of \$14.6 million which	after implementation.							10.3	11.4 0	12.0 0	12.6 0	13.2 0 000000000	13.9 0	14.6 0	

State Cost for Interest Rate Subsidy

Year	1:	\$1.44 million	Year 8	\$ 9.29	15	\$14.08
		2.79	_	10.15	16	14.33
	3	4.05	10	10.96	17	14.78
	4	5.24	11	11.70	18	15.04
	5	6.34	12	12.38	19	15.23
	6	7.39	13	13.00	20	15.33
	7	8.37	14	13.58	21	15.33

It is recommended that the State limit the funds it will affix its coupon to each year to \$225 million and the State should pay a maximum of 14 percent simple interest added to the principal savings which were made 14 years or more prior to college entrance.

Administration

The State subsidy would be provided in the form of a coupon which would be registered with the State Treasurer's Office or some other appropriate existing State agency or corporate trust agent designated by the State. The State would need to track all outstanding coupons as well as determine a pay-off on the coupons when they are turned in at an institution of postsecondary education in Maryland.

If the State sells zero coupon bonds, it will require an agency of the State to purchase the bonds and make them available for resale in small units to college savers. If left to market forces, the zero coupons are likely to be purchased in one block and will not be available to the small saver.

The State will need a comprehensive marketing campaign to educate the public about the benefits of this program. Table 4 indicates the value of the State subsidy to a family's college saving. The State should supplement, when necessary, the marketing of the various products in support of this program in the private sector.

Benefits to the State

This program should have numerous positive benefits to the State.

 More students will be encouraged from a young age to consider going to college.

The advertising campaign that will accompany this program will encourage families to begin considering a college education for their children when they are very young. The State's part of the campaign must encourage people to save what they can and to explain that for those with need when they get to college, there are financial aid programs to help them. This should ultimately increase the participation rate of youngsters in higher education.

- Fewer students will require loans to finance their college education.

The level of debt which many students are experiencing is becoming unmanageable. This will encourage greater reliance on saving rather than borrowing to finance higher education.

- More students will attend college in-State.

Currently, Maryland is a net exporter of students. More than 50 percent of the high school graduates with an A average leave the State.

Will put the State in the forefront in the nation in designing an innovative program which uses to maximum advantage the private sector. APPENDIX A culterenting engoing as well in determine a pay-our de the couponer viting application of the special application of the property 24



WILLIAM DONALD SCHAEFER

STATE OF MARYLAND OFFICE OF THE GOVERNOR

revenued for scheduling to the dissipant and the desired passently by

G-06

May 27, 1987

Mr. Les Disharoon
Chairman of the Board and
President
Monumental Life Corporation
1111 North Charles Street
Baltimore, Maryland 21201

Dear Mr. Disharoon:

In cooperation with the General Assembly of Maryland, I am appointing a Task Force to Study Alternative College Financing Methods. I am very pleased to appoint you to serve on this Task Force.

The rapidly rising costs of higher education is threatening students and families of college-age children with significant economic expenses. Due to federal financial aid cutbacks and the escalating costs of higher education, alternative and innovative financing plans for college must be explored.

Accordingly, I am asking the Task Force to undertake an examination of alternative methods for financing a college education, with particular emphasis on approaches which spread the burden of payment over a specified time period. The Task Force should study the efforts of other states, such as Michigan and Missouri, to deal with this issue. The analysis of different approaches should take into account risks and liabilities to both the State and the family. The final report should recommend whether there are new approaches which will assist students and families to afford college without eroding the traditional methods of support which are currently available.

Mr. Les Disharoon May 27, 1987 Page Two

The Task Force should have its study and recommendations completed and prepared for submission to the Governor and the General Assembly by November 1, 1987.

Thank you for your willingness to devote the time and effort necessary to study this important issue.

I would appreciate your contacting the members of the Task Force to establish the date and location of your first meeting.

Saltimane, Maryland 21201

Sincerely,

Governor

the Blake and the family. The final report should recommend whether there are they approaches which will essint sindems and families to afford college without eroding the traditional mithods of support which are

payments based on conservative approprial assumptions which will take to overestimate tuition increases and labell estimate investment cathron

Density can be required by for it through positive ableb restrict the amount of the return absolute ab

4. The state can pay for it differential account pury more

The base of the pays the cost is conty related to the base of the cost is cost in the cost is conty related to the base of the cost is cost in the cost is cost in the cost in the cost is cost in the cost in the cost in the cost in the cost is cost in the cos

In the New Javery propert currently under discussion the risks and solver.

The Colleges out bear the colleges when the plan fund has mened.

avode united and any any norther of sample or and the special special sectors of the sectors of



State of New Jersey

DEPARTMENT OF HIGHER EDUCATION OFFICE OF STUDENT ASSISTANCE 4 QUAKERBRIDGE PLAZA CN 540 TRENTON, NEW JERSEY 98625

Simulating e State Guaranteed Tuition Plan: New Jersey Proposal

Lutz K. Berkner
Office of Student Assistance
New Jersey Department of Higher Education

Costs and Risks of Prepayment Plans

The centrel problem in dasigning e guarenteed tuition plan is how it should be financed. The two basic financing issues ere: 1) who is to pay for the costs if tuition rates increase faster than retes of return? 2) who should share in the risks?

In order to be successful, the pian must be equally attractive to both individuals end colleges, and this will happen only if they share the costs and the risks in return for certain essurances. The individual participant should be assured that the plan can offer e return (in tuition value) that is greater than the return available through individual investments. The colleges must be essured that the tuition revenue from the fund can cover an acceptable threshold of their ectual tuition charges.

A pian can be structured so that the costs ere paid by one or a combination of the following:

- 1. The colleges can bear the cost by being required to accept es payment for tuition whatever the plan fund has earned.
- 2. The participants can be required to pay for it by paying a premium above current tuition levels. This will normally happen in any plan that sets

payments based on conservative actuarial assumptions which will tend to overestimate tuition increases and underestimate investment returns.

- 3. The participants who withdraw from the plan and do not claim their tuition benefits can be required to pay for it through penalties which restrict the amount of the refund.
- 4. The state can pay for it through subsidies or guarantees.

The issue of who pays the cost is closely related to the issue of who shares the risk of financial loss. The risk to participating individuals depends primarily on withdrawal rights. If participants can withdraw both their principal and the full investment earnings from the plan fund, then there is no risk to them (except that the return might have been higher elsewhere). If they want tax-free benefits, they must accept the risk of losing their earnings if the tuition benefit is not claimed. The risk to the colleges is that the plan fund will not be able to earn enough to reimburse them for an acceptable percentage of the actual tuition charged. This institutional risk can be reduced by structuring the plan to retain all or part of the earnings of those who withdraw and requiring the payment of a premium on current tuition.

The New Jersey Guaranteed College Tuition Plan Proposal

Many of the state plans under discussion make the implicit assumption that the colleges will be paid 100% of their actual tuition charges. This is to be achieved through the determination of "actuarially sound" payment schedules. What this will mean in practice is that future tuition increases must be projected and these must then be "discounted" at the expected rates of investment return. If the return is expected to be below tuition increases, the payments required will be greater than current tuition.

In the New Jersey proposal currently under discussion the risks and costs are shared by the participants and the colleges. The main features are:

- participants buy any number of college credits at the actual current price; their guarantee is that they can claim the use of these credits at any time in the future, no matter what the price per credit is then.

- the colleges are guaranteed reimbursement of 90% of the actual per credit tuition charged when the pre-purchased credits are claimed; if investment returns allow, they may receive up to 100% reimbursement.
- participants who withdraw without claiming their pre-paid credits are required to contribute to the cost of the program. Under option A those who withdraw are refunded principal plus interest, but at a rate below the fund's average return. Under option B only the principal may be withdrawn, but the benefits are expected to be tax-exempt and tuition may be purchased at a 5%-10% discount.

Simulation of Annual Costs

The attached tables show the results of a model which simulates the proposed New Jersey Guaranteed College Tuition Plan (option A which allows withdrawals with interest) using the following assumptions:

- 1,000 participants enroll in the plan each year for 20 years, their ages at enrollment are uniformly distributed from birth through 14, the maximum age for entry. They make an annual payment every year they are in the plan until they are 18, at which point they claim the tuition benefit or withdraw the principal plus earnings 2% below the average return on the fund.
- the ages of each entering cohort of participants are assumed to be uniformly distributed, 1/15 or 67 from each cohort reach age 18 after 4 years (since the maximum age at entry is 14) and every succeeding year for 15 years. The plan reaches stability after 19 years when 67 participants from each of the first 15 entering cohorts (67 x 15 = 1,000 roughly) leave the plan.
- participants will be in the plan for an average of 11 years (median age of entry of 7 plus four years of participation after age 14).
- the annual tuition purchases are fixed for each cohort. They start at \$1,000 for the first year of the plan and are increased for each cohort at the same rate as the average tuition increase.

The numbers at the top half of the table for each "entry year" into the program show the 18-year averages and totals for each cohort of participants fro birth to age 14 who enter the plan in the same year, and who will therefore take from 4 to 18 years to claim their tuition benefit. The numbers on the bottom half of the table for each "exit year" represent the costs actually incurred in each future year. The first pay-out costs to the plan are incurred in year 5, when only those who were 14 years old in year 1 go to college. The model reaches stability after year 18. Since no new participants are added after year 20 the number of claims drops until year 38 when the last one-year-olds who joined in year 20 go to college.

Column legend:

- A The entry year of each cohort of 1,000 participants into the plan.
- B The exit year from the plan when participants reach 18.
- C The number of participants entering or leaving the plan each year.
- D The average number of years that payments were made to purchase tuition (assumes a payment every year).
- The average annual dollar payment (assumed to be fixed for each cohort).
- The total dollar amount of the payments (in millions) which the participants contributed.
- The total pre-paid tuition benefits (in millions) claimed by those who matriculate (70% assumed). This is the actual value of the pre-paid credits the year they are claimed.
- The plan funds available to pay the tuition benefits (total of all payments: plus investment return minus the principal and a 2% lower return for non-matriculants).
- The cost of the guaranteed tuition to the colleges (the difference between tuition benefits claimed and plan funds paid out).
- The percentage of actual tuition price which could be paid out of plan funds to reimburse the colleges.
- K The (inflated) dollar value of the average pre-paid tuition benefit.
- L,M,N The number of years of college enrollment that the tultion benefit is worth at a state college, Rutgers University and an independent college (average).

Table 1 simulates a 8% annual tuition growth, a 7% average annual investment return, and 70% of the participants matriculating at a New Jersey college. In year 1 the first cohort of one thousand participants enters the plan. Since their ages are uniformly distributed (67 are age 1, 67 are age 2, etc.) and they make a payment each year, they will make an average of 11 payments (median age 7 plus four years after age 14) of \$1,000 each. The total amount paid by the cohort after 18 years is \$11 million. The total tuition benefit claimed is \$13.8 million, which represents the sum of the actual value of the pre-paid credits the years that they are claimed by the 70% of the participants who matriculate.

The plan fund will collect and earn \$13.6 million from this cohort (principal plus 7% earnings from 70%, plus 2% earnings from the 30% who withdraw). The cost of the plan to the colleges is \$257,000, the difference between the value of the tuition benefit claimed and the plan funds; the plan could reimburse the colleges for 98% of actual tuition. The average tuition benefit received over 15 years was \$19,750. This would have bought 5.8 years of tuition at a state college, 4.0 years at Rutgers, or 1.2 years at an independent college. Those choosing the state colleges would have paid in less; those choosing an independent institution would need to pay in more.

The value of the tuition benefits in terms of "tuition-years" and the percentage of the tuition covered by the plan is the same for all entering cohorts. The absolute dollar values, however, keep growing at 8% per year. The bottom half of the table shows the same information for each group of participants who reach age 18 and leave the plan. In year 5 only the 67 who entered at age 14 in year 1 leave the plan. They have paid an average of \$1,000 for four years, which is enough to buy 2.6 years of tuition at a state-college. Each year the oldest members of the next cohort leave the plan until year 19 when there are 1,000 entering and also 1,000 leaving, so the plan attains stability.

During the first four years of the plan there are no costs, since the 14-year olds who entered in year 1 will not go to college until year 5. During the first 10-15 years, the costs will be relatively low; during years 19-24, the plan attains stability; after year 24 the costs rise because no new participants are being added to the simulation.

Evaluating the Potential Costs

The cost to the colleges will be determined by the long-run difference between the average rate of tuition increase and the average rate of return on investment to the plan fund (the "point spread" between tuition rates and interest rates). Currently, the return on ten-year Treasury bonds is between 7-9 percent, while average New Jersey college tuition has also been increasing by 7-9 percent annually over the past five years. Although several colleges are considering increases higher than this in the next few years, such high rates of tuition growth cannot be sustained over a long period of time, and it is unlikely that the average spread will exceed two points in the long run. Under either withdrawal option, the Plan should be able to pay the colleges over 90% of actual tuition even if the rate of return on investment averages two percentage points below tuition growth.

It is important not to confuse the issue by looking at inflation instead of investment returns. If we compare the ten-year moving average of New Jersey tuition since 1967 with 10-year moving average U.S. bond yields, even without compounding the yield has never averaged as much as 2 points below tuition.

The financial impact of the proposed Plan on the participating colleges is difficult to specify or to interpret in absolute dollars, because the full costs of the program will not occur for several decades, during which time inflation will totally change our current conception of the value of a dollar. Participants can enroll in the plan at any age below 15, but cannot normally claim the tuition benefits until age 18; therefore participants can be in the plan anywhere from 4 to 18 years or later before maturity. If about the same number of participants enter the plan each year, and their ages are about evenly distributed, then it will take 18 years before the full costs of the plan are realized. If tuition actually continued to increase annually at the current rate of about 8% during that time, the colleges would be charging four times as much as today. Therefore, the potential costs of the plan to the colleges can best be understood in relative terms, as the percentage of actual future tuition that the Plan will be able to reimburse to the colleges.

The last group of tables shows the results of simulations with different combinations of tuition and interest rates assuming that either 70 percent or 80

percent of the participants will actually claim the tuition benefits and matriculate in a New Jersey coHege. Under the tax-free option (B), the plan fund retains all the earnings of those who do not matriculate. In this example the taxable option (A) assumes withdrawal of principal plus interest earnings at a rate 2% below the average rate of return.

in Table A, the columns show the average annual rate of tuition growth, while the rows show the average annual rate of return on investment. The numbers in the boxes show the redemption value of the policies as a percentage of actual tuition when the rate of return is equal to or less than tuition growth. For example, if we expect 70% matriculation, a 7% return, and a 9% tuition growth, then the redemption value will cover 91% of actual tuition.

Table B employs the same analytic approach, but arranges the results according to the percentage "point spread" between tuition growth and rate of return. Note that with option A, the <u>level</u> of tuition and return has a minimal effect. The percentage of tuition covered depends only on the point spread.

Under both options, the plan covers an additional 2% of actual tuition for every 10% increase in the withdrawal rate.

Additional tables show that if the size of the payments is increased every year (instead of remaining fixed for each cohort), the plan fund will perform better with larger point spreads.

The plan also performs significantly better with an older age distribution than a younger one, if the point spread is over 1%.

	CN)TUITION YRS VALUE INDEPNDT	ANNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUN
	(M)TUITION YRS VALUE RUIGERS	ลงลงลงลงลงลงลงลงลงลงลงแบบบบบบบบบบบบบบบบ
ON	CL)TUITION YRS VALUE STATE C	พพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพ
ON A MATRICULATION REMIUM IN AT 1986 PRIC	CKJAVG + CTUITION CLAIM	22.25.25.00
N. OPTI 70% NJ 7 NO PR	COVERED	
LEXTION PLICENT RETURN FELON RETURN FECEIVE \$100	PLAN COST #MIL	00000000000000000000000000000000000000
TAB TEED TESTM	H)PLA PAYOL	MANUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNU
JERSEY GUARAI ROMTH 7% IN GS WITHDRAWL T ENTRY YFAR	(G)TUITIO	HAHAHAMANAWAAAAAAA WAAAAGAAAAAAAAAAAAAAAAAAAAAAA
024		
2	F)TOTAL PAID SAMIL	OSSOCIATION OF THE TOTAL OF THE
•••	E) AVG (1111000 111200 1200 120
- FERSI	(D)AVG (22. 20. 20. 20. 20. 20. 20. 20. 20. 20.
	CON	
35	(B) EXIT	
33	A) ETRY	≪ ™WMANGLACATION

9:24 TUESDAY, JUNE 2, 198/ A.

NEW JERSEY GUARANTEED TUITION PLAN: OPTION A

9x TUITION GROWTH 7x INVESTMENT RETURN 70x NJ MATRICULATION

SAVINGS WITHDRAWL 2x BELOW RETURN / NO PREMIUM

PAYMENTS FIXED AT ENTRY YEAR TO RECEIVE \$1000 TUITION AT 1986 PRICES

	TEN	
	(N)TUIT YRS VAL INDEPND	
	UE	A) Exclusive with Corest of principal place interest egraffical at a ratificial
	(M)TUIT YRS VAL RUTGERS	พพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพ
	NE CE	
KILES	CL)TUIT YRS VAL STATE C	ພາຍພາຍພາຍພາຍພາຍພາຍພາຍພາຍພາຍພາຍພາຍພາຍພາຍພ
0	ON_	00000000000000000000000000000000000000
1 A 1 19	CLAIM CLAIM	22222222222222222222222222222222222222
071	6 70	IN THE PERSONS AND PRINT STREET, STREE
101 000	(J)PCT (TUITION COVERED	
CIVE PI	CI)PLAN COST \$MIL	######################################
א ה	MIL	
) - -	PAYO	MARCHOURANDERARDOUNING CONTRACTOR
	INS	
ENIKY	G)TUITI CLAI	ASPENNOVANNAMARARINGEN HAMARIAR DAGEN NAMARARINGEN ASPENDEN ASPEND
~	=	plan also perform significantly Middle with Medical des 1962 Middle 22 2
XED	101	
NTS FI	PAI PAI	HIHAHANNANAMAAAAAAAAAAAAAAAAAAAAAAAAAAAA
YMEN	F	和我们是我们的一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的。 第一章
PA	(E)AVG YRLY PAYT	10000 111000 11000 11000 11000 11000 11000 11000 11
	(D)AVG YRS PAID	00000000000000000000000000000000000000
	CC) NCM- BER	100000 10000 10000 100000 1
	(B) EXIT YEAR	HERENGROUND AND AND AND AND AND AND AND AND AND A
	A) NTRY EAR	
	ZWW ZWW	The state of the s

TABLE \$

NEW JERSEY GUARANTEED TUITION PLAN: OPTION A

10x TUITION GROWTH 7x INVESTMENT RETURN 70x NJ MATRICULATION

SAVINGS WITHDRAWL 2x BELOM RETURN / NO PREMIUM

PAYMENTS FIXED AT ENTRY YEAR TO RECEIVE \$1000 TUITION AT 1986 PRICES

NUTULL	YRS VALUE INDEPNDT	
111	YRS VALUE RUTGERS	พพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพพ
Mosessia	YRS VALUE STATE C	พุทยพุทยพุทยพุทยพุทยพุทยพุทยพุทยพุทยพุทย
	TUITION	255, 450 275, 4410 277, 4510 277, 4510 277, 450 277, 450
	(J)PCT OF TUITION COVERED	
	CI)PLAN COST #MIL	60000000000000000000000000000000000000
N TO WE	CH)PLAN PAYOUT	HAHHUMUMUMAARWAAAA NAABQHAAQWAHAKBANDOHHUMARABDURQKANNNNAAAAAAAANWUM AQAHQBOAHOKFABKFINAADKKOHKOHKBKIOFOHOKKINABOKKAAKAAAA
ENIRT ICA	OTUITION CLAIMS #MIL	Manual Ma
-	9	ARIS TO THE THEORY PROTECTION OF THE PROTECTION
IS FIXED	TOTAL PAID I	- Charles of the Control of the Cont
AYMENT	AVO (F	\$2220000000000000000000000000000000000
	G X	
	A	
	CON	
	(B) EXIT	
	(A) ENTRY	© HUMANGLESCHMANANAN

8:20 TUESDAY, JUNE 2, 1987

NEW JERSEY GUARANTEED TUITION PLAN
PERCENTAGE OF ACTUAL TUITION COVERED BY THE PLAN
AT VARIOUS RATES OF TUITION, RETURN AND NJ MATRICULATION
PLAN A RETURN -2%; PLAN B WITH 5% DISCOUNT
PAYMENTS FIXED AT ENTRY YEAR TO RECEIVE \$1000 TUITION AT 1986 PRICES

TABLE	A	_								PLAN		OPTIONS								
PERCENT OF ACTUAL TUITION COVERED	OVERED				(A)		TAXABLE				-			-	(B) TAX		EXEMPT			
					TUITION		GROWTH	×			-			12	TUITION	GROWTH	H			
		10	•	8	9	7	8	6	10	=	12	5		2	6 1 7	60	6	110	Ξ,	112
		PCT	PCT	PCT	PCT		F	PCT			H		PCTIP	- 1	B	F	TIPCT	TIPC		
ICU-	RATE OF RETURN						i a n-c			Timber 1									repeater	111111
	2	106	86	91	85	78	73	67	62	22	53	103	96	68	82	76 7	71 65	9 60	98	15
	*	Ŀ	106	6	16	84	78	721	67	621	57		105	186	116	841 7	781 72	9	19 9	36
	2	Ŀ		106	86	9.1	84	78	72	199	19	Ē		101	166	-	851 79			1 62
	9	<u> </u>			106	98	91	84	78	721	99	-	-	Ē	1001	1011	941 87	-	801 74	1 68
	7	ļ.	L.			106	98	911	88	77	11/	7	-	-	=	1111103	-	9 1 8	88 81	7.5
			Ŀ	1			106	98	16	84	77	-	7	-	-	. 1113	3 105		97 8	8
	6			1			1	1001	98	91	83	7	-	-	-	-	. 1115	=	86 98	6
	10						1		106	98	90			-				9111	6 107	6
	11						-	1		106	98	-			-	-	-	=	. 1118	110
	12										106				-	-	-	-	_	. 1119
0	RATE OF RETURN 3	103	96	2		1	12	99	3	35	52	\$	86	*		74	- 89	63	58	. %
	4	-	1103	96	89	83	76	71	65	109	56	Ī	101	96	871	8117	751 6	9 69	64 59	91 54
	2	ļ.	-	1103	96	89	82	76	70	65	109	1	=	102	95	881.8	811 7	75 6	99 69	1 59
	9	-	1		1103	96	89	82	761	70	651	7	7	Ē	031	8 196	8 68	82 7	76 70	9 6
	7					104	96	89	821	761	701	1	7	7	=	104	97 8	9 6	83 76	1 70
	80	_					104	196	88	821	751	1	-			Ē	1061 9	981 9	901 83	5 77
	6	_						104	96	88	811		7			٥	=	07.1	981 91	11 84
	10	_				Ľ		•	104	196	80			3		=		. 1107	_	16 16
	11				i					1041		-	Ξ	7	Ξ	-	-	÷	. 1108	8 100
	12	-		_	_						1041						-		-	1109

PERCENTAGE OF ACTUAL TUITION PLAN

AT VARIOUS RATES OF TUITION, RETURN AND NJ MATRICULATION

PLAN A RETURN -2x; PLAN B HITH 5x DISCOUNT

PAYMENTS FIXED AT ENTRY YEAR TO RECEIVE \$1000 TUITION AT 1986 PRICES

TABLE	Berria			1	-	-	-	-	-			-			(8)	TAX	FXEMPT	1			Π
TTTON C	COVERED				CB		TAXABLE	La.					1	-	- 4	200			1		1
101110	OVENCE	MIUG	1.	SPREAD	1	BETWEEN	1	TUITION	AND		RETURN	POINT	REEL	SPREAD	10000	BETWEEN	1	TUITION	AND	RETURN	2!
		-		-			15	9	7	60	6	0	-	2	2		2	9	7	-	6
		Ę	15	10	PCT	PCT	PCT	PCT	15	5	12	PCT	PCT	PCT	PCT	PCT.	PCT	PCT	PCT	PCT	PCT
NJ MATRICU- LATION X	RATE OF RETURN							123 ()			5,115			0	22	76	12	59	09	36	. 15
	22	106	98	91	85	78	73	9	70	2	1.					7.0	72	199	611	561	Ι.
	4	106	98	91	84	78	72	67	29	2/	1	103	_1.					123	163	T	Ш
	2	1106	98	16	8	78	12	99	19	-	1	1107	_:	76	92		2		1	T	1
	,	11061	98	161	80	1 78	1	99			-	1109	101	96	87	80	-	0	T	T	1
		1106		16	184	177	171				1	Ξ	1103	95	88	81	75	-		7	-
		106	0	1-	186	177	1	1		_	Ĺ	1113	1105	97	1 89	82			•	7	-
	-	701	1-	1-	1 60	1	1	1	1	Ŀ	Ŀ	1115	1106	98	6	-				-1	-1
	-	70	4-	1-	-	1	1		_	_		1116	1107	66		-				7	1
		701		4-	1	1	!	1	1	_		. 1118	1109	i		_				7	_1
	=		- 4 -	1.		-		1	1	-	-	1119			_						_1
	112	1106		-	-		1	1	1.	ļ.	ļ.	ļ.	ļ.		-	_					_
80	RETURN	- !		- 60		- :		**	5	35	52	99	93	8	8	7.	9	6.3	98	36	20
	3			4.	4.		4-	4-	4-	1-	1-	101	11 94	87	18	11 75	69 1	99	1 59	56	_
		2	9 8	0 0	1-		-+-	-+-		1-	+-	+	21 95	88	18	75	69	99	59		-+
			1-		80	+-	+-	19	+=	 -	 -	. 1103	31 96	89	8	2 76	7.0	9	_	_	-+
			10	4-	4-	4-	17	+-	+-	 -	-	104	4 97	8	9 83	3 76	2 70	_	_	_	-+
Y.				1	4-	4-	751	ļ-	+-	-	-	. 1106	6 98		8 106	12 77	_	-	-	_	-+
	-	10	10	4-	+-	4-	+-	+-	+-	+-	-	. 1107		_	9118	84	-	-	-	_	-+
		-		4-	4-	+-	+-	 -	+-	-	-	. 1107	-	6 166	911	-	-	-+		_	-+
d			6 19	196	+-	+-	 -	 -	-	-	-	Ē	108 100		-	-	-		-		-+-
			١.	+	+-	+-	+-	-		-	-	Ē	1001	-	-	-	-	-	-	_	- 1

DEPARTMENT OF HIGHER EDUCATION OFFICE OF STUDENT ASSISTANCE

TUITION, INFLATION AND INTEREST RATES 1967-1986

1							CONSUMER	İ			2) ")		1 BOHO
		TUITION \$			TUITION II	HOEX !	PRICE	1	A	HHUAL *	INCREASE		INTEREST
YEAR	STATE COLL.	RUTGERS UNIV.	ZHOEP- I ENDENT !	STATE COLL.	RUTGERS UNIV.	INDEP-	USA		US CPI	STATE COLL.	RUTGERS UNIV.		! ANNUAL ! AVERAGE
1967-69	350	400	1200 !	100	100	100	100	-!					1 4.5
1968-69 1	350	400	1300 !	100	100	108 !	104	1	4.0	0.0	. 0.0	8.3	
1969-70 !	350	400	1500 !	100	100	125 !	110	1	5.8	0.0	0.0	15.4	
1970-71 1	350	400	1700 !	100	100	142	116	1	5.5	0.0	0.0	13.3	1 6.8
1971-72 !	535	585	1800 !	153	146	150 !	121	1	4.3	52.9	46.3	5.9	
1972-73	535	585	1900 !	153	146	158	125	1	3.3	0.0	0.0	5.6	1 6.5
1973-74 1	535	585	2000 !	153	146	167	133	1	6.4	0.0	0.0	5.3	1 7.0
1974-75 1	535	585	2200 !	153	146	183	148	1	11.3	0.0	0.0	10.0	1 7.8
1975-76 1	704	760	2400	201	190	200	162	1	9.5	31.6	29.9	9.1	1 7.8
1976-77 1	704	760	2500 !	501	190	208	171	!	5.6	0.0	0.0	4.2	1 7.3
1977-78	704	760	2650 !	201	190	557	182	1	6.4	0.0	0.0	6.0	1 7.5
1978-79 1	704	760	2800 !	201	190	233	195	-	7.1	0.0	0.0	5.7	1 8.5
1979-90 1	736	832	3100 !	210	208	258	218	1	11.8	4.5	9.5	10.7	
1980-81 !	800	940	3450 !	229	235	288	247	1	13.3	8.7	13.0	11.3	1 12 7
1981-82	864	1110	3880 1	247	278	323	272	1	10.1	8.0	18.1	12.5	! 13.5
1982-83	960	1366	4430 1	274	342	369	289	1	6.3	11.1	23.1	14.2	1 12.0
1983-84 1	1024	1490	4850 1	293	373	404	297	1	2.8	6.7	9.1	9.5	
1984-85 !	1088	1520	5300 !	311	380	442	308	1	3.7	6.3	2.0	9.3	
1985-86 !	1184	1748	5800 !	338	437	483	319		3.6	8.8	15.0	9.4	
1986-87 !	1280	1852	6200	366	463	517	323	!	1.3	8.1	5.9	6.9	1 8.6

Independent college tuition is estimated.

Consumer Price Index is for calendar year of fall term.

Bond yields are 10 Year US Treasury.

DEPARTMENT OF HIGHER EDUCATION OFFICE OF STUDENT ASSISTANCE

TUITION, INFLATION AND INTEREST RATES 1967-1986

	!				OHSUMER !	21	π	H YEAR	HOUTHG AVE	RAGE		!	P01	INT SPREHO	
	1	or	TUITION IN	DEX !	PRICE		A	HAL X	THUREASE		IAUERAGE	E	RETUR	ens - Tuit	IOH
VEAR	!!	STATE COLL.	RUTGERS UNIV.	INCEP- !	USA		US CPI	STATE COLL.	RUTGERS UNIV.	DIOEP- ENDENT	BOND IDITERE I SIMPL	ST I	STATE COLL.	RUTGERS UNIV.	INDEP- ENDENT
1967-68	-!	100	100	100 !	100						1	1			
1968-69	1	100	100	108 !	104						1				
1969-70	1	100	100	125 !	110							1			
1970-71	1	100	100	142 !	116							1			
1971-72	1	153	146	150 1							1				
1972-73	1	153	146	158 1	125							1			
1973-74		153	146	167 !								1			
1974-75	1	153	146	183 1											
1975-76	1	201	190	200 !							i				
1976-77	1	201	190	208					7.	8.3	2 1	6.9 1	-1.6	-0.7	-1.4
1977-78	1	201	. 190	221			6.2	8.5				7.2 !	-1.3		-0.9
1978-79	1	201	190	233			6.5	8.5				7.7 1	-1.2		0.1
1979-80	1	210	208	258			7.1	8.9				8.3 1	-1.5		കൃ
1980-81	1	229	235	588			7.9	9.8			0 1	9.0 !	3.7		1.0
1981-85	1	247	278	323			8.5	5.3				9.6 !	3.2		0.1
1982-83	1	274	342	369			8.8	6.4				10.0	2.9		0.
1983-84	-	293	373	404			8.4	7.				10.4 !	2.7		1.
1994-85	1	311	380	442			7.7	7.				10.5		_	1.
1985-86	1	338	437	483			7.1	5.			-	10.6			
1996-87	1	366	463	517	323	1	6.6	6.	2 9.6	7.	0: 4	10.0			

01-Jun-87

*DATA TUITION CHANGE

Tuition and CPI are average annual increase for prior 10 years. Bond yields are 10 year averages.

New Jersey Guaranteed College Tuition Plan Proposal (A) Effect of Variations in Behavior On % of Tuition Reimbursed by the Plan

(A)	Withdrawals	Point	Per	rcentage M	atriculatin	D
	(Fixed payments)	Spread	60%	70%	80%	90%
		0	109%	106%	104%	102%
		1	101	98	96	94
		2	94	91	89	87
		3	86	84	82	80

- Every additional 10% matriculating reduces coverage by about 2 percentage points.

an literan

			A	ge distribut	ion
(B)	Age distribution of	Point	All	Equal	All
	entrants	Spread	Over 7	1-15	Under 7
	(Fixed payments,	0	104%	106%	107%
	70% matriculation)	1	99	98	98
		2	94	91	90
		3	90	84	82

- Younger age distributions reduce coverage significantly with larger point spreads.

(C)	Fixed vs. Increasing	Point	Annual Pa	yment Amount
	Size of Payments	Spread	Fixed	Increasing
	(70% matriculation)	0	106%	105%
		1	98	98
		2	91	92
		3	- 84	86

- Larger payments in the later years increases coverage.

PERCENTAGE OF ACTUAL TUITION PLAN

AT VARIOUS RATES OF TUITION, RETURN AND NJ MATRICULATION
PLAN A RETURN -2x; PLAN B MITH 5x DISCOUNT
PLAN A RETURN -2x; PLAN B WITH 5x DISCOUNT
PLAN A RETURN -2x; PLAN B WITH 5x DISCOUNT
PAYMENTS FIXED AT ENTRY YEAR TO RECEIVE #1000 TUITION AT 1986 PRICES
YOUNGER AGE DISTRIBUTION

														-	1	1111				
PERCENT 0	OF ACTUAL				5	10	TAXABLE	1 11			-			(8)	D TAX		EXEMPT			-
DITION	OVEKED		1	PODEAD		4	TUI	TUITION	AND	RETURN	+-	POINT	SPREAD		BETHEE	7	TUITION	N AND	8	ETURN
				21				-	1	-	-	-	-	2 3	3 - 6	- 5	9	1 7	•	•
		=	-+		2	_ • •	- •				-+-	15	- + -	1 -	10	10	10	PCT	PCT	PCT
		2	5	PCT	PCT	PCT	PCT	PCT	2	5		3	-+-					-		
NJ MATRICU- LATION X	RATE OF RETURN											<u> </u>					9	3 57	52	. 4
0	3	106	98	0	83	76	701	9	160		71	9 1 0	-+-	- + -	-+-	1	1	+-	2	
	4	1106	98	90	83	761	701	641	58	531	- †	1001	90				-+-	1		
		1107	98	90	83	192	69	199	581	-	-	109	00	921	200	-	-+	1		
	,	1107	98	90	82	76	69	63		-	-		1021	931	861	7817	21 6		-	
	-	1107	98	90	82	75	69					113	103	951	871	8017	31	-	-	_
		1107		106	82	1 75						115	1051	196	88	811	-	-+	_	
		1107		100	1 82	-						116	107	98	891	-	-	-+	_+	
	91	1107	! _	1 90	-	-	-					118	108	166	-	-	-	-	-+-	-
		1107	186	ļ.	-	-	-					119	1001	-		-	-	-+	-+-	-+-
	12	1107	ļ.				-		ij			121	-1	7	=†	-	+			
0 00	RETURN	-							- 5	52	- 4	100	92	5.0	28	22		60	55 51	94
	5	9	-1-	0 0		11	-+-	-+-	1-	1-	1-	+-	931	861	79	721	199	611 5	561 51	_
		100	10		-+-	1	9	.+-	1-	1-	1_	1103	95	871	80	73	671	611 5	561	-
		100	-+-	4-	4-	1	19	+-	ļ.	1	1	104	96	80	811	74	68	621	-+	-+
TOTAL		104	4-	4-	1-	01 73	51 67	+-	ļ.	_	Ŀ	1105	26	89	811	74	681	+	-+	-+
		10	+-	1-	1-	1	31	-	-	-		1106	98	89	821	75	-	-	-	-+
		100	+-	1-	+-	108	-	+-	-			101	96	90	821	7	-	-	-	-+-
	91	1100	+-	+5	871	 	 -	-	-			1108	66	91		7	-	-+	-+-	-+-
		110	+-	951	+-	+-	+-	-	-			1109	1100			7	-	-+	-	+
		-	+	+.	+	+	+-	-			-	1110				-	-		-	-

N

MEM JERSEY GUARANTEED TUITION PLAN
PERCENTAGE OF ACTUAL TUITION COVERED BY THE PLAN
AT VARIOUS RATES OF TUITION, RETURN AND NJ MATRICULATION
PLAN A RETURN -2x; PLAN B MITH 5x DISCOUNT
PAYMENTS FIXED AT' ENTRY YEAR TO RECEIVE \$1000 TUITION AT 1986 PRICES
0LDER AGE DISTRIBUTION

TABL	E 3.									PLAN	-	OPTIONS	40								
TUITION	COVERED				5		TAXABLE	ш			-				1-	AX	EXEMP	_			
			IT SP	READ		MEEN	TOI	TUITION	AND	RETI	ETURNI	POIN	T SP	READ	BETH	MEEN	TOT	TION	AND	RET	ETURN
				2.	2		5	9	7	60	6	-	-	2	٠- -	-	2	9	7	8	
		5	U	PCT	2	PCT	3		H	5	L	PCT	5	PCT	PCT	PCTIP	CT	1 E	PCT	PCT	PCT
MATRICU- LATION X	22				100 V C										-						
7.0	2	104	6	\$	90	86	82	78	74	7	67	100	96	16	87	83	79	75	72		65
	4			96	90	86	82	78	74	7.0		102	97	931	80		80			69	1
	S		6	94	90	86	82					104	99	96	06	85	18	77.	74	-	
	9			96	90	86	81	78				105	100	951	91	87	82	78	-	-	
Lø	7	100		94	90	86	8					107	6	971		88	83	-	-	-	
	80	2	3	96	90	85						108	103	98	931	89	-	-			
	6	9	3	94	90							109	104	99	94	-	-				
	10	104		3			ī					110	105	00	i						
	11	100									-	112	106	a	ī						
	12	104						d				113			ī		i				
	RATE OF RETURN																				
	2	102	97	93	89	84	80	77	73	69	99	98	96	89	85	2	72	7	20	29	63
	•	102	97	931	89	84	80	77	73	69		99	96	90	861	82	78	74	7	67	•
	50	102		931	88	84	80		73			1001	951	91	871	821	78	75	71		•
	9	102		93	88	841	80	76	÷			0	196	921			191	751			
	7	102	97	931	88	841	80		7			102	971	921	88	84	80	G			•
	80	102		93	88	841	F	F	-			103	98	93	89	84	7	ī		li	•
	6	102	97	93	88		i		-	F		103	98	94	891	7	-				•
	10	102		93	H				-			50	99	96			ī	i	F		
	11	102	97			H	i					05	00	i	딥		-	=	日		
	112	102		-		-	-	·	7			051	-	3	-	Ţ.	÷.	-			

NEW JERSEY GUARANTEED TUITION PLAN
PERCENTAGE OF ACTUAL TUITION COVERED BY THE PLAN
AT VARIOUS RATES OF TUITION, RETURN AND MJ MATRICULATION
PLAN A RETURN -2x; PLAN B MITH 5x DISCOUNT
PAYMENTS INCREASED ANNUALLY AT THE TUITION RATE

										LAN		2001	1							-
PERCENT OF	OF ACTUAL				3	1	TAXABLE				-			9	TAX	EXE	MPT			
2 101110	The state of the s	POINT	1 8	READ	DET	ETWEEN	TULL	NOI	AND	RETUR	:=:	POINT	SPRE		E	-		AND	RETURN	NA!
			1-	2.1	-	-	-	9	7 -	-	-	-	-	-		-	9	7	80	0
		152	i F	PCT	TE		TE	151	PCT	151	tet	計	CTIPCT	121	TPCT		5		PCT	PCT
NJ MATRICU- LATION X	RATE OF RETURN									;					78	73	69	65	19	. 25
0	2	105	8	92	86	8	20	ē i	•	2	6	7	-4-	-4-				99	62	1
		105	98	92	86	81	76	ξŤ	67	3			4.	-+-	4-	1.		67		
	5	105	98	921	86	81	76	=	67	7	-	1061	_	1	4.	-4.	4.		1	
	9	105	98	92	86	81	761	711	-	7	-	108	5	96	100	_1	2	1		1
	7	105	98	92	86	81	76	F	=		•	11011	120	196	8918	84 78	-	_	1	1
		1105	86	92	86	8	1	-	-	=		=	104	971	911 8	-	-	_	_	
		105	86	1 92	86		1	7	-	7	i	113	105	98	921	-	-		-	
	10	1105	15	92		Ε		-	ī	ī		114	106	166	-	+		_	1	_
	11	1105	98	Ŀ	1					Ξ		115	107	=	-	-	-	1		_1.
	12	1105	Ŀ	Ŀ								116	7	=†	-+	-	4	1	1.	
80	RETURN	-	!	5		2	7	7.0	65	62	50	66	93	87		7 92	9	7 63	59	35
	,		1	10	1.	1		7.0	65	621	1-	101	196	88	12		2 6	9	-4	_
			1	10	-+-	1			65		1	102	951		3	7817	31 6	9	4	_
		101	10	10	1 00	+-	74	70				103		90	-		9 5	16	-	_
	-	103	10	16	84	1 79	1 74	-				104	971	106		7917	141	-	-	_!
		1103	16	16	98 10	1 79	-	-	+-	-		105	981		- +		-	-+		_!
	6	1103	16	16	100	41	-			+		11051		921		-+		-+		_
	10	1103	16	16	0		-	-	-	-			991	9.51			-+.	-+-	-+-	
		1103	6	9	-	_						731	1001			- ÷ ·	-+-	- + -	-	-
			i +	+-	1 - 1	-	-	-		_		11111			-	_	-	_	_	-

APPENDIX C

The Massachusetts College Saving Plan:

David Bartley, President Holyoke Community College

John Bresil, President

Service Human Alexander

of the

Massachusetts Board of Regents

Committee on Tuition Prepayments

July 1, 1987

Caspler A Sole . outling and in Laurence - condition . . .

Clara M. Coffin, President ... service Clara mottler blaners

prepared at the request of

Governor Michael S. Dukakis

APPENDIX A - RIPH, EXPENSE, AND STREET STREET, MINISTER, AND STREET, AND STREE

APPENDIX D — TAX CREATED APPENDIX DE VICENTA DE LA CREATE
stine AlCUM was formerly represented on this committee by Frank A.

The state of the billion of the state of the

Committee Members

David Bartley, President Holyoke Community College

John Brazil, President
Southeastern Massachusetts University

William Craig, Vice Chairman Shawmut Bank

Frank Falcone, President Springfield College

Ronald Homer, President Boston Bank of Commerce

*Herman Leonard, Professor
Harvard University School of Government

J. Donald Monan, President Boston College

Clare M. Cotton, President
Assoc. of Independent Colleges and Universities**

Richard A. Wiley, Partner Csaplar & Bok

* Chairman

Staff:

Richard E. Anderson, Professor Teachers College, Columbia University

Loren Loomis Hubbell, Graduate Student Harvard University, School of Business

**The AICUM was formerly represented on this committee by Frank A. Tredinnick, to whom the committee is grateful for assistance in its early deliberations.

TABLE OF CONTENTS

		pe	ge
EXE	CUI	TVE SUMMARY	de my Could d'a date
I	IN	TRODUCTION	4
	A B C D	The Need	6 8
II	CR	ITERIA1	1
III	TH	E PROPOSED PLAN1	2
	A	Commonwealth College Bonds	4
	В	Prepaid Tuition Certificates	.8 .2 .2
	C	Administration	25
Cha Cha	art	it One — Example of Commonwealth Guarantee Two	25
		ONCLUSION	
AP	PEN	DIX A — RISK, EXPOSURE, AND SUBSIDY DIX B — TAX CONSIDERATIONS, PREPAYMENT PLANS DIX C — CRITERIA FOR SELECTION	38

The Division will be managed to that the investor particular

. Are expected to grove rapidly enough to cover taktion charact and

EXECUTIVE SUMMARY

The financing of higher education is a mutual undertaking of families, colleges and universities, and the Commonwealth. Increasing the amount of saving by parents for higher education is an important goal of the Commonwealth. Parents are often discouraged from saving by the daunting prospect of high costs and uncertain financial returns from investments. Recognizing the problems families face, Governor Dukakis committed the Commonwealth to examine alternative ways to help families in their efforts to prepare financially for their children's higher education. At the request of the Governor, the Chancellor and the Board of Regents appointed a committee to study savings and tuition prepayment plans. Meeting through the spring of 1987, the committee developed this preliminary report outlining a specific two-part plan.

This plan is explicitly designed to help middle-income parents to save more effectively for college expenses. Middle-income families, who pay the bulk of taxes supporting state services, have little prospect of receivings direct financial aid assistance for college. They also have few well-defined mechanisms for accumulating savings to pay for college costs. This plan is designed to provide such a mechanism. The plan has been designed so that small contributions can be accommodated, to make the program as accessible and useful as possible to all Commonwealth families. However, it is unrealistic to think that any savings-oriented plan will be of much help to parents whose financial situation makes it difficult to accumulate savings on a sustained basis. It is very important, therefore, that this plan not be viewed as a financial aid program, and that it not compete for funding with financial aid programs designed to assist low-income families. The need for financial aid is explicitly addressed by the extensive scholarship programs of the Commonwealth.

The proposal presented here is not the committee's final recommendation. Rather, it is offered as a basis for wider discussion among the committee, state higher education policy makers, college and university leaders, and concerned individuals from other agencies and organizations. Though this work is preliminary, it is presented in a specific and detailed form to facilitate the kind of concrete discussion that must take place to refine these ideas further.

The Plan

The proposed plan consists of two separable parts. Either part can stand on its own, but if both parts are adopted they can also be linked.

A. Commonwealth College Bonds. A small denomination zero coupon tax exempt bond series (similar in form to federal EE savings bonds) would be issued by the Commonwealth. The bonds would be sold at the current market rate of interest. If a bond in this series is redeemed to pay for college costs of a Massachusetts resident, the Commonwealth would supplement the yield of the bond by an additional 1 percent annually. Thus, a bond issued at 6 percent compounds at 7 percent if redeemed for college expenses. (The proceeds of these bond issues would be available to the Commonwealth for use in capital projects in higher education.)

B. Tuition Prepayment Certificates. The Commonwealth will form a nonprofit trust to issues tuition certificates in denominations of \$50 and higher. The certificates may be redeemed at participating public and independent institutions for specified fractions of a year of tuition and fees. Since the tuition charges at colleges differ, a given certificate will buy differing amounts of tuition at the respective campuses. The certificates are denominated in years of tuition, however, so the family will know exactly how much tuition it has purchased; no matter what happens to investment returns or to college costs, the certificates will always buy the same number of years of tuition at any given participating college. Parents will find this an attractive investment because it reassures them that increases in tuition will not erode the value of their efforts to save for college. The plan includes reasonable provisions for withdrawal.

This plan provides a way for families to pay future tuition at a considerable discount. If tuitions continue to rise as fast as they did in the recent past, then over the next 16 years today's \$10,000 college education will rise in cost to over \$30,000. This program enables families to buy that \$30,000 education for its current, \$10,000 price tag—less than one-third of the cost they will face if they wait and try to pay college bills as they come due. If they phase their purchase of education over the years before college (rather than making it all at once a number of years before college), the discount will be smaller but still substantial.

Parents will present the tuition certificates to the participating colleges and universities in lieu of tuition payment. The institutions redeem the certificates from the Trust, receiving the appreciated value of the original funds. The investment of the funds will be managed by a committee drawn primarily from participating institutions.

The investments will be managed so that the invested funds are expected to grow rapidly enough to cover tuition charges and

Preliminary Report

administrative expenses. There are several reasons why the Trust will be in a better position to invest the funds than most families. These include the ability to take a longer investment perspective, access to the better financial advice, and (possibly) tax advantages.

In spite of this investment edge, college administrators will understandably be concerned that in any given year, they may be exposed to an unacceptable tuition shortfall. Recognizing this concern, the committee proposes that the Commonwealth guarantee a minimum level of appreciation. The current proposal is that the Commonwealth guarantee that for institutions with only modest tuition increases, tuition growth will not exceed fund appreciation by more than two percent annually. (The Commonwealth would seek to recoup any payments under this guarantee from prior or subsequent tuition payments made by the Trust in excess of the actual current tuition charges of participating institutions.)

C. Transfer of Savings. Families may use Commonwealth
College Bonds to purchase Tuition Prepayment Certificates at any time
and still retain the special interest supplement.

The committee believes that this plan is unique. It is quite different in concept from all other state plans currently being considered. The Commonwealth would take a unique role in higher education. Independent colleges can participate fully with public institutions. The plan can easily be extended to include institutions in other states. The committee believes that the plan can provide a sound and effective investment vehicle that will promote college savings in the Commonwealth. We invite detailed comments on this proposal.

the OCCUP, the present data not hot results conjust a past operation and best to

of the standard of the years before colleged the then making the it all at once of the standard the standard of the standard little but to be standard to the standard of the

organism in the district of the state of the

I. INTRODUCTION

then parents, colleges and universities, and the Commonwealth will have

the tay all available resources affectively. Although actople will attle

A. The Need

The burden of paying for college is an increasingly daunting prospect for parents in the Commonwealth. Yet the future of Massachusetts' economy and even our social fabric will be profoundly influenced by the quality of education we provide our children. Until recently, parents could look forward to a firm partnership with the federal government, the Commonwealth, and colleges for the provision of funding for higher education for qualified young men and women.

Increasingly, however, the federal government is limiting its role, and college administrators find financial aid dollars stretched ever further. The Commonwealth, through support of state institutions of higher education and through its financial aid program for residents, has substantially expanded its efforts to assure that all qualified students will have access to high quality institutions. Nonetheless, the burden felt by parents of college-age students is real.

If high quality education is to continue to be widely available,

then parents, colleges and universities, and the Commonwealth will have to tap all available resources effectively. Although schools will still make every effort to increase the availability of financial aid, and the Commonwealth's support of higher education will also grow, families with the capacity to make a contribution to the costs of their children's higher education will inevitably be asked to shoulder a significant part of the burden.

Under the economic conditions of the 1980s, many parents are finding this increasingly hard to do. Other spending demands — the rising costs of shelter, medical care, and other necessities — make it difficult to save. But even those who manage to set aside some funds are faced with bewildering financial decisions. Investments offering high yields are risky. Taxes absorb a portion of investment return, often reducing the real earnings (earnings after inflation) to zero or turning them negative. These conditions are likely to continue into the foreseeable future. Finally, college costs are rising quickly, regularly outpacing parents' capacity to earn aftertax returns on their investments. Although this cost increase may not continue at its recent pace, the possibility is enough to frustrate many parents and even dissuade some from preparing for future college costs.

B. Alternative Approaches

In the last year, many suggestions have been raised about how parents might be encouraged or assisted in saving more effectively. Some have argued for savings plans. That is, the Commonwealth might design a program which encourages families to set aside funds in financial or other assets during the years prior to college attendance. Although there are risks to the family that the assets will not appreciate, after taxes, at a satisfactory rate, this is where the burden of risk customarily has rested; the relationships and the risks are understood. A plan which encourages families to add to their savings for college would, if it succeeds, reduce the future need for Commonwealth and private college financial aid.

Others have suggested that state institutions (as a group) or individual private colleges permit prepayment of tuition so that parents could be assured that the growth in college costs will not outpace the appreciation of their savings. This would shift investment risk from families to colleges and the Commonwealth. There are several important reasons to effect this shift in risk taking. Many families who want to save for higher education have had a relatively short time horizon.

Unless savings occurs before an infant is born, the maximum duration is

17 or 18 years. (For too many families the period of saving may only be five to ten years.) This accumulation period may occur during years in which the financial markets are in retreat, resulting in a depreciation of the saved funds. Moreover, with a short investment horizon, family financial strategies are severely constrained. For example, parents trying to save for the prospective college education of their children may justifiably be frightened by the risks associated with investment in stocks. Yet history is clear: the return to equity investments, although certainly more erratic, far exceeds the return on fixed income securities.

Institutions, or some financial umbrella organization, are in a better position to take the more advantageous long term investment perspective with the expectation that some periods will produce losses and others will yield offsetting gains and more. Furthermore, with a large enough accumulation of funds, the investment managers can diversify the investments and hire specialized financial talent. It may even be possible to design a fund which specifically hedges against cost increases in higher education. Finally, families pay tax on most earnings in spite of the fact that some of the "earnings" may simply be compensation for inflation. This taxation makes it more difficult for families to achieve a positive return on tuition savings after adjustment for taxes and inflation. It should be possible to construct a prepurchase arrangement in which income taxes are reduced or

Preliminary Report

eliminated. (See Appendix A for a discussion of the financial risks and Appendix B for a brief review of the tax issues.) Obviously, though, a prepayment program will not be nearly as simple nor straightforward as a savings plan.

Regardless of the approach used, if an effective way can be found to increase the amounts parents in the Commonwealth put aside for higher education and to protect those savings from erosion as college costs continue to rise, the returns to students, parents and the Commonwealth will be very high. As an investment in our future, the education of our children bears fruit for all. Keeping quality education within the reach of hard-pressed parents would be an enormous service.

C. Appointment of the Committee

Governor Dukakis, recognizing the problems families face in preparing financially for college, the value to the Commonwealth in assisting them, and the difficulties in creating a truly effective plan, announced in October 1986 that the Commonwealth would undertake a review of the problem. The purpose was to formulate a plan that would help families prepare more effectively for carrying their part of higher education costs. The Committee on Tuition Prepayment was appointed in

the winter of 1987 by the newly appointed Chancellor, Franklyn G.

Jenifer, and the Board of Regents. The Committee is organized as a

subcommittee of the Board of Regents Task Force on Student Financial

Aid. The committee will report its findings and recommendations to the

Task Force, to the Chancellor and Board of Regents, and to the

Governor. The committee includes representatives from public and

independent institutions of higher education, and from the financial and

legal communities. Ex-officio members include representatives from the

executive and legislature. The meetings were open and were attended

by representatives of a variety of Commonwealth agencies and private

organizations. The Committee was assisted in its work by outside

consultants familiar with higher education financing issues and by the

staff of the Board of Regents.

Meeting six times over the course of the spring of 1987, the Committee on Tuition Prepayment examined a wide range of options. It considered pure savings programs (intended to assist parents in saving but not removing the investment risk from them) as well as pure tuition prepayment plans (designed to insure that the growth in college costs will not outpace the earnings on the funds that parents put aside).

D. This Report

The Committee made considerable progress in identifying the criteria by which a program should be judged and in examining and evaluating alternatives. Although it has not reached final conclusions, the Committee has arrived at a point where wider discussion of its preliminary recommendations would be useful. The Committee consists of knowledgeable individuals with a wide diversity of backgrounds and exposure to higher education, but it was not designed to be fully representative. At this point in its deliberations, the Committee believes that hearing wider reaction to its preliminary ideas would aid it in developing final recommendations for a plan. Accordingly, it has decided to issue a preliminary discussion of its findings at this time.

This report presents a preliminary proposal designed to be the basis for a wider discussion. It is in no sense a final recommendation. Although the Committee believes that it would be useful to have wider reaction to these proposals, and has agreed that this proposal is of sufficient interest to merit further exposure, final discussion of the details of these suggestions has not yet begun. The Committee intends to use this preliminary report to obtain more concrete, detailed, and definitive reactions from others, and to use it as a basis for beginning

Preliminary Report

a wider policy discussion. The Committee will then continue its deliberations on the basis of the advice it receives in this process.

II. CRITERIA

The Committee reviewed reports from various states and national organizations. The criteria the Committee used were drawn from a variety of sources, but those listed in a memorandum from the National Association of Independent Colleges and Universities were particularly useful. The Committee believes that there are key characteristics that any plan, savings or prepayment, must have:

The plan should help <u>middle-income</u> families. The purpose of this plan is to assist middle income families in saving more effectively toward the goal of paying higher education costs. To make it as accessible and useful as possible for all families in the Commonwealth, however, the plan should permit investments in as small a denomination as is administratively feasible. The committee hopes that is will be possible to permit investments as small as \$50 at a time.

The plan should not be financial aid. It is unrealistic to expect that a savings-oriented plan will be of much help to families who are unable to make a sustained effort to accumulate savings. Though the plan will be made as accessible as possible to low-income families by permitting investments in small denominations, this program should not be seen as addressing the needs of low-income students. This is not a financial aid plan; rather, it is a plan that should reduce the need for financial aid for students of moderate means whose families will be able

Page 12

to make a larger contribution to their college costs if they save more effectively. This program must not be viewed as financial aid, and it must not be allowed to supplant financial aid programs for low-income students or to compete with need-based financial aid programs for funding.

The plan should promote access and choice. Broad institutional choice by students should be preserved. As a result, the saved funds and those committed for prepurchased tuition should, to the extent possible, be available for use at any institution in the country.

The plan should share risk appropriately. Risks must be shared equitably among families, participating institutions, and the Commonwealth. Whoever assumes financial risk — families, institutions, or the Commonwealth — must also stand to benefit proportionately if there are financial gains. Furthermore, if there is a Commonwealth subsidy involved, there will have to be comparable benefit to the Commonwealth and the public at large.

The plan should be simple. The plan must be simple enough to be easily understood by families and institutions.

A more complete discussion of the Committee's criteria may be found in Appendix C.

III. THE PROPOSED PLAN

The Committee reviewed a variety of savings as well as prepayment options. Five plans were examined in some detail; three were savings plans and two were of the prepayment variety. The savings plans included a Commonwealth IRA-like account, a vehicle using

Preliminary Report

single premium life insurance, and the sale of zero coupon tax exempt bonds. The prepayment options included a Full Prepayment Plan (similar to the plan legislated in Michigan) and a tuition certificate approach.

The IRA-like account was rejected because the Committee believed it would be difficult to induce new savings when the incentive was only freedom from Commonwealth taxation. The Single Premium Life Insurance form was set aside because of its limited nature and the belief that it could be provided without Commonwealth involvement. Finally, the Full Prepayment plan was considered too rigid for the variety of institutions and the multiplicity of enrollment patterns of Commonwealth residents. (A more complete description of these plans is presented in Appendix D.)

A savings idea that has not been tried, but which has appeal, is the use of small denomination zero coupon bonds. These bonds are relatively easy to understand and the clear exemption of the interest from federal taxes under current law is an attractive feature.

A carefully crafted prepayment plan also appears to have economic merit. Families seem to react very favorably to the certainty of having tuition prepaid. Michigan has received 24,000 inquiries from residents since their plan was first announced; Duquesne reported

having more than 600 participants in the first year of offering prepaid tuition. The Committee was attracted by the flexibility of the certificate plan, and it was selected for further development. Although it is certainly more complicated to implement than the bond plan, the basic concept of the certificate approach is relatively easy to comprehend. Most important, independent institutions in and out of Massachusetts can participate.

The Committee has worked carefully on the development of these plans. It was not possible — nor did it seem to us desirable — to resolve all the details of these plans during the relatively short period of time the Committee has met. There is a good deal of expertise in the higher education and the investment banking communities that should be tapped to refine these proposals and to better understand the attendant problems. It may also be useful to enter into discussions with other states about a joint approach. On the other hand, the Committee felt it was important to offer as detailed a set of recommendations as possible as a stimulus to discussion. It is in this context that we offer the following plans for further development.

A. Commonwealth College Bonds

1. Overview. In this bond plan the Commonwealth would

reserve a portion of its General Obligation bonds each year for sale to families saving for higher education. These bonds, like all General Obligation bonds of the Commonwealth, would be exempt from state and federal taxes. This portion of the bonds would be sold in small denominations and issued without interest coupons (that is, they would be "zero coupon" bonds). The interest is accumulated and paid at maturity. When bonds are issued in this form, the saver does not need to reinvest semiannual interest payments. The bonds would be issued at prevailing interest rates but, if the bonds are redeemed for college expenses, the Commonwealth would pay a higher interest rate: one percent above the issuance market rate. It is assumed that this extra yield and the availability of small denomination bonds will induce more families to save for college.

The advantages of this proposal are that: (1) it is simple; (2) it will improve choice because families will have more funds and these funds will be portable; (3) although there is some concern that the funds might not grow as fast as tuition, the bonds are a relatively safe investment; (4) the small denominations should be suitable for families with modest extra cash; and (5) the proceeds of the bond issues would be available to the Commonwealth for use in capital projects for higher education. The disadvantages are that: (1) it may be costly to get the bonds into the hands of savers; and (2) the interest subsidy necessary

to induce new savings may also be costly. In spite of these cost questions, this approach appears worthwhile. For a family with modest resources, these bonds would provide access to a standard tax-exempt investment and would provide added incentives that it be held to maturity and used for college expense.

2. Proposed Bond Features

- a. Denomination. The bonds will be in small denominations (\$50 and up) for the convenience of savers with limited funds.
- b. Form of Bonds. The bonds will be in "zero-coupon" form so that savers will not have to reinvest interest. The bonds will have fixed face values but the price paid will depend upon the date of maturity and the market rate of interest on the date of issue.
- c. Appearance. The Commonwealth College Bonds will be similar in appearance to United States EE Savings Bonds and will be sold through existing retail financial institutions.
- d. Named Beneficiary. The bonds will be registered in the name(s) of prospective college student(s) (that is, beneficiaries will have to be named at the time of investment). The bonds can be transferred to another family member.
- e. Rligibility. The bonds are intended to assist in saving for the higher education of Massachusetts residents wherever they attend college. (The basic rules that determine residency under Massachusetts' general scholarship program will be used to assess eligibility for the interest supplement.) Thus, if a relative out of the state purchased the bonds for a Massachusetts resident, the accumulation would include the special supplement.
- f. Yield. The yield on the bond, if redeemed for cash, will be the market rate of interest at date of issue.
- g. Redemption with Commonwealth Supplement. If, when a bond matures, it is redeemed through a college for a named beneficiary, the Commonwealth will add a supplementary payment that will raise the rate of return by one percent for example, from 6 percent to 7 percent.

certain to might be recorded to star desired

- h. Funding of Supplement. To fund the supplementary interest payments, the Commonwealth will appropriate an amount sufficient to cover the incremental interest when due.
- i. Conversion to Tuition Certificates. The accumulated value of these bonds, including the supplement, can be converted at any time for tuition certificates. The interest supplement will be prorated for the period the bonds have been held and included in their calculated value when making the conversion.

materilly. Many brinds are larged in this form, the saver slow for need

to related a country to the party of the bonds would be bessed at low bon out of the months and the standard of the standard o

and the state of t

of forverenest of one about off . (Investment) to out od in because to

It will become about familie fortilles will have not religious phosphanical

extends the order with analysis and between the behindered accomplicated and Theory administration as education of Massachusetts residents wherever they attend colleges (The trouble in factories, "except formatting the following the formatting of the following the following the first state of the following the foll percentage program will be used to seems eligibility for the interest

complements of the selection with the selection of the second through the special second through the special to the second term of the second terms of the special terms. with modest extra cash; and (II) the pyrocade of the bond less consentages

he avectored his tips of managing and other than the section of the state of

seferences. The disservances are industrial to may be mady by set the

B. Prepaid Tuition Certificates

1. Overview. The Commonwealth would establish a trust to sell tuition at all public colleges and universities. Independent institutions, at their choosing, could also participate by agreeing to provide education to certificate-holders in exhange for redemption of the certificates by the Trust.

The trust will issue Tuition Certificates in denominations of \$50 and up. The tuition values will be printed on the reverse side of each certificate — for example, a \$1,000 certificate might purchase 0.10 years at Clark University, 0.12 years at Bradford, 0.9 years at Fitchburg State, and so on. The conversion values for certificates issued in any given year are determined by the tuition charges in that year. Thus, a \$1000 certificate purchased in 1987 will pay for more tuition than a \$1000 certificate purchased in 1990.1

A family purchases as many certificates as it wishes. The accumulation may be regular, possibly through a payroll deduction, or whenever family finances permit. When it is time to attend a college,

Only standard undergraduate tuition will be listed on the certificate. A complete listing of covered tuition (e.g. graduate tuition and other special tuitions) will be published in a catalog.

the family can determine how much tuition it has prepaid at each institution. The family submits the certificates to the college bursar in lieu of some or all of its tuition and fee payments. The college submits the certificates to the fund for reimbursement. If the family member enrolls in a nonparticipating institution, the fund will issue payment, with appreciation, to that college. If the family decides not to use the funds for higher education, it can receive a cash refund, but a smaller amount than it would receive if the funds were used for education.

The college submits the certificates to the trust and withdraws a portion of the invested funds. The certificates function like shares of a mutual fund. The investments are managed (like an endowment or pension fund) by a committee which is elected by all participating institutions.

The certificate plan has the advantages of full prepayment plans (like that adopted by Michigan). It is, however, far more flexible. Independent institutions can, if they wish, participate fully. Graduate and other tuition charges can also be accommodated. In addition, the sale of certificates in a variety of denominations permits families with limited extra funds to purchase some tuition. Of course, transferring the risk that investments will not grow as fast as tuition does not make it disappear; the risk is shifted to colleges and the Commonwealth.²

²However, the trust's challenge of making the funds grow as fast as

Preliminary Report

Some students whose families have invested on their behalf through the certificate plan may wish to attend institutions that are not participating. An important choice to be made in setting up such a plan, therefore, is providing a cashout provision which is fair to families who want to send a son or daughter to a nonparticipating institution but which also fairly apportions risk and reward to participating and nonparticipating colleges.

The most significant difficulty with a prepaid tuition plan is the risk it creates to participating institutions. If college costs rise dramatically in spite of the best efforts of institutions to control them, or if the investments chosen by the plan's trust managers perform poorly, colleges face the prospect of having to deliver educational services in return for tuition certificates whose value is below what they would otherwise charge to their students. Of course, in this case the program has been particularly helpful to parents, who will be able to pay for tuition by redeeming their certificates — if they had

(continued)
tuition should be achievable. Most colleges assume that their tuition
will rise about 2 percent above the CPI and that their endowment will
grow faster than tuition. Other investment funds (pensions, mutual
funds, and so on) have also maintained positive real rates of return
over long periods. Furthermore, by imposing modest penalties on
families who withdraw funds for other than educational use,
appreciation for tuition payments can be enhanced.

Preliminary Report

compared to the growth in college costs, they would have been less able to afford any higher education. Moreover, competent management of the investments should result in colleges receiving, on average, higher tuition through certificate redemption than they are charging students without certificates. Nonetheless, the prospect that colleges might have to redeem certificates whose value had not appreciated enough to offset increases in college costs presents a risk to participating institutions.

To help overcome this problem, the Committee's preliminary recommendation is that the Commonwealth share in the financial risk. We suggest that the Commonwealth provide a minimum rate of return guarantee (with the minimum depending on the rate of increase of college tuition and the CPI). Under this guarantee, the Commonwealth would make payments when investment returns and college cost increases diverge severely, and the Commonwealth would recover any losses out of prior or subsequent excess gains by participating institutions. With relatively small risk to the Commonwealth, state participation would offset downside risks that might otherwise deter private institutions from joining the plan.

Many details of this plan still need to be worked out with

Appendix A provides a more complete discussion of costs and risks.

participating institutions and with state policy-makers, and comments on these details are invited. The Committee believes that further refinement of these suggestions will result in a plan that should be included in Massachusetts' effort to assist families in saving for higher education.

2. Certificate Plan Features -- Family Participation

- a. Admission. Participation in the plan has no effect on admissions decisions.
- b. Use at Participating Institutions. Families use the Certificates as tuition vouchers, turning them in for the stated tuition value.
- c. Transfer. Certificates may be transferred to other immediate family members.
- d. Cashout Provisions. Under certain circumstances the family may wish to return the Certificates to the Trust for a refund. The Trust will have three refund policies as follows:
- (1) In the event of death or disability of the beneficiary or if the family faces financial hardship, the refund will be the appreciated value of the original prepurchase amount.
- (2) If the beneficiary attends a nonparticipating institution, the refund will be for the lesser of the appreciated value of the original payment or an amount based on the compounded average increase of tuition and fees at participating institutions.
- (3) If cashout occurs for other reasons, an annualized return will be determined using the formulation in (2) above. This annual return will then be reduced two percentage points and applied to the original prepurchase amount.

3. Certificate Plan Features - Institutional Participation

- a. Participation by Independent Colleges. Participation by independent institutions is invited. If a college elects to participate, it will annually submit a list of tuitions for which the certificates may be used. These tuitions may include graduate and professional education.4
- b. Investment Management. The prepaid tuition is invested by fund managers who are selected and directed by an investment committee. The investment committee is elected by the participating institutions.
- c. Certificate Redemption. When a certificate is submitted to an institution in lieu of tuition, the institution resubmits it to the Trust for a pro rata share of the invested funds.
- d. Withdrawal. Institutions may withdraw from the plan but must honor certificates issued while they were participants.

4. Certificate Plan Features -- Commonwealth Participation

- a. The Trust. The Commonwealth will charter a Private NonProfit Trust to administer the Tuition Certificates. (The Commonwealth may enter into discussions with other states regarding their potential involvement and the appropriate organizational structure for the Trust if a multistate plan should evolve.)
- b. Participation in Trust Management. The Commonwealth will be represented on the advisory board and the investment committee of the Trust.
- c. No Tax of Trust. The Commonwealth will not tax the Trust's appreciating assets nor the distribution of those assets if used to pay college bills.
- d. Establishment of Reserve and Operating Fund. The Commonwealth will provide an interest free loan to the Trust to establish an operating reserve for the first year. Administrative costs will subsequently be paid out of a fee charged against Trust earnings.
- e. Trust Guarantee. The Commonwealth will use its resources to
- ⁴A rules committee (selected by participating institutions) will be established to settle pricing, and other, issues. For example, if new fees are established after certificates have been sold, the rules committee will determine if those charges were included in the original tuition.

partially protect participating institutions from losses which could occur if invested funds do not grow as fast as tuition. This guarantee would operate as follows:

- (1) If a participating institution's real annualized tuition increase⁵ (during the period the Tuition Certificate was held) is two percent or less, then the guaranteed minimum rate of return on the invested funds is 2 percent less than the annualized nominal tuition growth.
- (2) If a participating institution's real annualized tuition increase is greater than 2 percent, then the guaranteed minimum rate of return on the invested funds is the annualized CPI growth.

This guarantee can be stated arithmetically as follows:

Let TI be the rate of increase of tuition,

CPI be the rate of increase of the consumer price index,

and MROR be the guaranteed minimum rate or return.

Then:

(i) if TI - CPI < 2 percent,

· then

MROR = TI - 2 percent;

(ii) if TI - CPI > 2 percent,

then the Record the Company

MROR = CPI.

The following table illustrates the guaranteed minimum rate of return under various conditions of tuition and consumer price increases:

Rate of Tuition Rate of Consumer Price Gtd Minimum Increase Increase Rate of Return

The real annualized tuition increase is the difference between the compounded rate of increase in tuition and the compounded rate of increase of the Consumer Price Index.

(percent per yr)	(percent per yr)	(percent per yr)
8	5	5
7	5	5
6	. 5	4

Note: The committee recognizes that for budgetary reasons this formula may have to be adjusted. However, the committee supports a guarantee formula which uses this basic approach. For the purposes of this report, both the structure and the specific parameters of the guarantee outlined above have been assumed.

(3) Whenever a Tuition Certificate is redeemed by an institution, any gain or loss (the difference between the fund appreciation and tuition growth) will be debited to an institutional record. The Commonwealth will make no payments under its rate of return guarantee to an institution that has a positive balance on its record. Similarly, after the Commonwealth has made a guarantee payment to a particular institution, all future excess gains by that institution will first be used to reimburse the Commonwealth for payments under its guarantee.

Exhibit 1 provides an example of how this guarantee might have worked in the 1970s; Charts 1 and 2 present a graphical summary.

f. Administration of Certificate Sales. The Prepaid Tuition Certificates, like the bonds, will be sold through existing retail financial institutions.

C. Administration

There will be administrative and marketing costs associated with both the Commonwealth Bond and the Tuition Certificate parts of this proposal. The committee believes that efficient administration and

EXHIBIT ONE -- EXAMPLE OF COMMONWEALTH GUARANTEE

A family bought a \$2,150 certificate in 1971. In that year, that amount of money would have purchased one full year of tuition at a Massachusetts independent college. By 1986 it would have grown to \$8,274 -- a compound growth rate of 9.40 percent. Over this period tuition at Commonwealth independent colleges increased at a compound rate of 9.23 percent. The average tuition charged in 1986 was \$8,080. The CPI grew at a rate of 6.81 percent.

Chart 1 compares the growth in invested funds with the tuition increases over the period. It also shows the Commonwealth supplement that an independent college (charging average tuition) would have received.

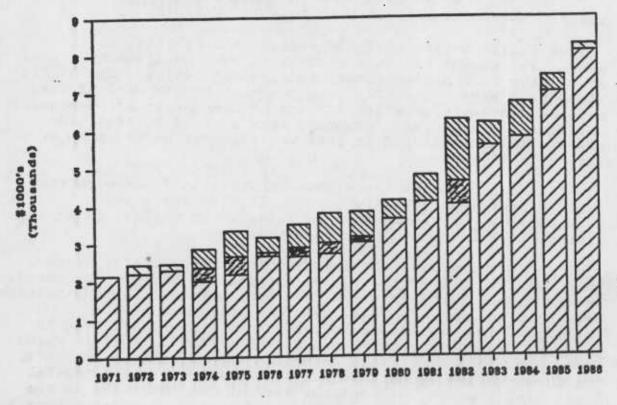
In 1972 and 1973 the invested funds appreciated faster than tuition and, if the \$2,150 certificate had been redeemed, institutional receipts would have been greater than had tuition been paid in cash. In 1974, however, there was severe inflation. The capital markets reacted, stocks fell over 18 percent. The \$2,150, which had grown to \$2,460, fell in value to \$2,010. If a family had cashed in the certificate in 1974, the Commonwealth would have had to add \$360. These potential Commonwealth additions continue through the seventies as the stock market struggled to recover and tuition increases were in the 6 to 7 percent range and in line with inflation.

In the 1980s tuition increases soared into double digits outracing inflation by 5 to 11 percent. As a consequence, in
spite of an improving stock market, a typical independent
college would have received less from that 1971 certificate
than from cash matriculants. Moreover, because the compound
growth of the investment is generally in line with inflation in
this period, the Commonwealth would not have added funds except
in 1982 when the stock market stuttered. In 1986 the
appreciated value of the \$2,150 certificate again exceeds
average tuition.

This example must be considered illustrative of the guarantee and not indicative of the performance of the certificates nor the exposure of the institutions. This example is sensitive to many factors, one of which is the year of purchase. If that same family purchased a certificate for average independent tuition in 1974, the value of the certificate would have equaled or exceeded average tuition charges in every year but three between 1974 and 1976. (See Chart 2.)

^{5.} This assumes the funds were invested in a stock index fund. Different investment scenarios would obviously provide different results.

CHART 1
Annual Value of 1971 Prepayment

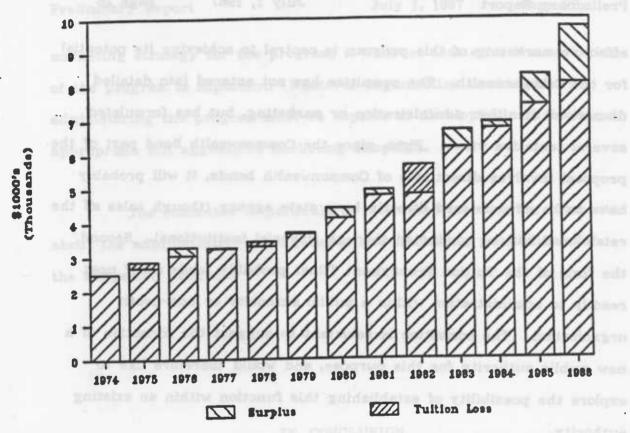


Commonwith Addition

Tuition Loss

Incess:

CHART 2
Annual Value of 1974 Prepayment



Pleasily, the committee believes that the progress will lead theil

LA SE MANUEL WILL BULL ELECTRON COMPANIES.

see \$501. Afternoon was business, tentorical francounties (Namouropean III). It was a see that the second of the s

Account the state of the section between the section of the sectio

nor the could alked by a untitle own of each a throught weath grater from

communication from the convergence and reported and approximation of the convergence of

Page 26

effective marketing of this program is central to achieving its potential for the Commonwealth. The committee has not entered into detailed discussion of either administration or marketing, but has formulated several tentative views. First, since the Commonwealth Bond part of the proposal involves direct sale of Commonwealth bonds, it will probably have to be administered directly by a state agency (though sales at the retail level can be conducted through financial institutions). Second, the form of the Tuition Prepayment TRust probably lends itself most readily to administration within a public authority or non-profit organization. The committee is reluctant to suggest the formation of a new public authority for this purpose, and would therefore like to explore the possibility of establishing this function within an existing authority.

Finally, the committee believes that the program will lend itself to aggressive and creative marketing. This may include establishing payroll deduction mechanisms, encouraging Commonwealth businesses to offer matched payroll deductions for this program as an employee benefit, encouraging grandparents and others to use this vehicle as a device for saving for the college education of their grandchildren, and encouraging other organizations to use Tuition Certificate or Commonwealth Bond investments as awards, prizes, and promotional benefits. While the committee has no intention of trying to design the

Preliminary Report July 1, 1987 Page 27

marketing strategy for the program, it believes that effective marketing of the program is important. Whatever organization is charged with administering the program must be capable of developing and fielding an appropriate but aggressive marketing campaign.

The committee is particularly interested in receiving comments about the administrative arrangements and marketing possibilities for the suggested program.

IV. <u>CONCLUSION</u>

Increasing the amount of savings that parents undertake for higher education is a very important goal for the Commonwealth. The circumstances and inclinations of parents, however, vary greatly. It is important that the Commonwealth's plan be attractive to as many parents as possible. At the same time, the plan should not expose institutions nor the Commonwealth to unacceptable risks. We believe that the two parts of the plan we have developed and presented in this preliminary report can provide an effective means for enhancing saving for college.

Preliminary Report

July 1, 1987

marginary had the

Page 28

The committee has issued the results of its preliminary discussions in the form of specific and detailed proposed plans to invite comment by interested individuals and institutions. We chose to present the details of these plans not because they represent our final answer to how the plans should be constructed, but because we believe having specific plans on the table will facilitate having the discussion that will be necessary to refine these ideas further.

The committee intends to use this preliminary report in discussions with interested private and public institutions of higher education, members of the wider higher-education community of the Commonwealth, state legislators and executive policy-makers, administrative agencies, and other interested parties. Comments on this preliminary report are explicitly invited, and may be forwarded to the Committee through the Office of the Chancellor of the Board of Regents.

descent at the same of more rate and or state of the same of the s

periodicinal and the management of the property of the best and the street

April satetos Morraenes, the prosectate satisfact for allegation Plantical designates, and convenience among colleges for my free terhave restricted to probabling how familiar may for college of matter,

September of first over over light between place existed to assist

APPENDIX D attend on the time of the company of the contract of the contract of Contract within - Investing prior's deliver for two or or's absence. as a result, have extreme find themselves providing a with section of Inn't fine the section the property of the state of

direction the fit token hand of suggest physical as as made inpulsability of a new manager that has described bles for Illinois.

contined in many forms. The play Stateday the east attention percent the Businesse beginstature - a frequent that has a child between

other economic and administrate transmit ,

PRESENTATION TO THE MARYLAND TASK FORCE ON ALTERNATIVE FINANCING METHODS

to have the plant should be employed by

Dr. Ross A. Hodel

Deputy Director

Illinois Board of Higher Education

August 19, 1987

administrative agencies, and other interested parties. Competts on this

preliminary reject are explicitly hielded, and may be forwarded to the

Committee through the Office of the Clarestier of the Board of September

Mr./Ms. Chairman, Members of the Task Force.

Annual tuition increases, the uncertain outlook for student financial assistance, and competition among colleges for new freshmen have contributed to rethinking how families pay for college education.

A growing number of colleges, universities and state agencies have drawn up new and sometimes innovative payment and loan programs. In September of last year over 250 different plans existed to assist parents in financing tuition costs. Since that time an even larger number have been added. The array of tuition financing options offered range from gift certificates to the equivalent of the tuition futures market — investing today's dollars for tomorrow's education. As a result, many colleges find themselves providing a wide variety of family financial services for prospective students.

In May of 1986, the Illinois General Assembly passed SR 782 directing the Illinois Board of Higher Education to examine the suitability of a tax-exempt tuition investment plan for Illinois.

In the process we examined institutional plans and proposals being considered in other states. The plan receiving the most attention passed the Michigan legislature — a program that for a child born today, parents would pay \$8,000 to cover four years of tuition costs in the year 2004. Over 40 states are considering similar programs although only Michigan and Wyoming have adopted one.

In examining the suitability of a program for Illinois, we looked at advantages and disadvantages for the family, advantages and disadvantages for the state; tax issues, organizational options and other economic and educational issues. From the parents' perspective, an investment guaranteed to match increases in college tuition costs is quite attractive. On the other hand, an investment dedicated to a single purpose — college education — and not usable for retirement or other needs is not as attractive. Also, choosing a college for a child at an early age is risky at best, particularly if the number of participating institutions, public or private, is limited.

From the state's perspective, encouraging families to save, and start saving early, is of benefit because parents share the cost of a college education. Loan debt for college costs is increasing and many families need a cause or incentive to save. A state sponsored program could also promote enrollment in Maryland institutions. On the down side, the state must bear the unknown administrative expense and assume the financial risk that tuition will increase for unanticipated reasons and investment earnings will not keep pace.

The U.S. Internal Revenue Service has not yet ruled on the tax status of dividends in these programs. The resolution of this issue is critical to the suitability of these programs for many individuals. The handling of the investment for tax purposes is crucial since the new tax law eliminates many of the long used shelters for college savings.

There are a myriad of options for organizing and administering these programs. Program administration could result in the establishment of a new state agency, simply involve contracting with a private investment firm to administer the program, or even allow the parent to choose his own investments.

Organizational details must address both economic and educational factors. For instance, the number of institutions included in any proposal is highly significant. While including both public and private institutions may make the plan more complicated, it would provide more diversity in college choice to the student.

Technical details such as transferability of benefits to other children, transferability to other colleges, and withdrawal penalties will be important issues in program design.

The treatment of the savings programs' accumulations in the computation of student financial aid could also have direct impact on some families' decisions to participate.

It is clear that a host of issues will have to be considered in the design of a program.

One should not underestimate the difficulty and importance of balancing desirable features from the parent's perspective and from the state's perspective. For example, as a parent I want:

- 1. Purchases available in small denominations like U.S. Savings
 Bonds
- 2. The ability to enter the program at any point in my child's life
- 3. Other individuals to be able to invest for my child, e.g., grandparents
- 4. A guaranteed return on savings that keeps pace with tuition inflation
- 5. Flexibility to use the investment at any college or university at any location

- 6. Transferability to another family member
- 7. Exemption from all taxes, state and federal
- 8. Use of funds for purposes other than college without a penal y
- 9. A safe investment

On the other hand, if I represent a state entity or institution, I want:

- 1. Low start-up cost
- Low administrative costs using current administrative structures
- 3. Minimal risk or liability to the state in case tuition rises faster than earnings
- 4. A plan that does not influence tuition rate setting (lower earnings would suppress rates whereas high rates allow them to grow)
 - 5. Limitation of attendance to colleges and universities within the state
 - 6. An educational component instructing parents

Designing any program is certainly a challenge. In Illinois, a Senate task force wrestled with this problem and examined four approaches to tuition investment - they never agreed on one.

The chart being distributed shows four approaches —— a trust approach as adopted in six states; an education IRA approach being considered in Illinois and Missouri; a tuition certificate approach used at Calvin College in Michigan, and being considered by Massachusetts; and our Illinois savings bond approach. I believe that our Governor will sign the savings bond bill into law this week at Youth Day at the Illinois State Fair.

Under the Illinois College Savings Bond approach, one of the state's bond sales would be structured to issue zero coupon college savings bonds rather than the regular state bonds which pay interest semi-annually and are sold to major investors in large denominations. The state usually sells bonds three times a year to raise funds for roads and capital construction.

Zero coupon bonds are sold at a discount and interest is paid only at maturity, e.g., a \$5,000 bond would sell for \$1,000 now but could be redeemed for \$5,000 at maturity in 20 years. The bonds mature in 1 to 25 years and their income is exempt from federal and state taxes. Certainty of tax status is an important advantage.

Bond sales will be handled by an existing network of banks and investment firms similar to the groups that have handled past state bond sales. An important bonus feature is contained in the bonds — bondholders showing evidence that the proceeds were used at a state college or university will receive an interest rate premium of 1/4 to 1/2 percent interest.

The bonds are also exempt from the Illinois student financial aid needs analysis so they are attractive to lower middle income families who may be eligible for the state's need-based financial aid program.

There are no penalties for early withdrawal so use of funds is very flexible even if the child does not go to college.

The program is not perfect; however, the purchaser is assuming that the bond's yield will grow faster than tuition. Exact denominations for issuance have not yet been set, but any bonds redeemable for less than \$5,000 each will probably increase the state's underwriting costs.

In preparing a program for Maryland, it is important that you weigh all the issues involved, balance the needs of the individual and the state, consider various options open to you, and then select an approach most suitable to the needs of your state and its citizens.

Correct Class of the states in the create and to write and

Mi chicarteal despents instruction parterestal facouse Id.

"I "NAME OF AN LOTHING BEING SAID IN MARK ALGORITHMS AND ASSESSED. BY W.

has believed the state of the s

an increase at the second of the control of the second of

and a new service of the service of

SB875 Enrolled

.

PIE

SDS/bill0233/mm/v

1	AN ACT to create the Illinois College Savings Plan Act.	47
	act of the land the first of the second of t	52
2	Be it enacted by the People of the State of Illinois,	32
3 .	represented in the General Assembly:	
	of all the beautiful all the state of the state of	
4	Section 1. This Act shall be known and may be cited as	55
5	the "Illinois College Savings Plan Act".	56
6	Section 2. The legislature hereby finds and declares the	58
7	following:	
8	(a) It is a fundamental goal of this State to provide	60
9	education to develop all persons to the limits of their	61
10	capacities, as provided in Section 1 of Article 10 of the	62
11	1970 Illinois Constitution.	
12	(b) It is an essential function of State government to	64
13	encourage attendance at institutions of higher education.	65
14	(c) Educational costs at institutions of higher	67
15	education are difficult for many to afford and are difficult	68
16	to predict in order to enable individuals and families to	69
17	plan.	
18	(d) It is in the best interest of the People of this	71
19	State to foster higher education in order to provide	72
20	well-educated citizens.	
21	(e) It is in the best interest of the People of this	74
22	State to encourage State residents to enroll in institutions	75
23	of higher learning in the State.	
24	(f) Students in elementary and secondary schools tend to	77
25	achieve to a higher standard of performance when the payment	78
26	of tuition for their higher education is secured.	79
27	(g) Providing assistance to assure the higher education	81
28	of the citizens of this State is necessary and desirable for	82
29	the public health, safety, and welfare.	
30	Section 3. In light of the findings described in Section	84
31	2. the General Assembly declares the purposes or this Act and	85
32	of the Illinois College Savings Plan Advisory Board created	86
33	by this Act to be:	
	and the second control of the second control	

.

1	(a) To encourage education and the means of education.	88
2	(b) To maintain institutions of higher education in the	90
3	State by helping to provide a stable financial base to these	91
4 ·	institutions.	
5	(c) To provide wide and affordable access to	93
6	institutions of higher education in the State for the	94
7	residents of this State.	
8	(d) To encourage attendance at institutions of higher	96
9	education in the State.	
10	(e) To provide students and their parents economic	98
11.	protection against rising tuition costs.	99
12	(f) To provide students and their parents financing	101
13	assistance for postsecondary education.	102
14	(g) To help provide the benefits of higher education to	104
15	the People of this State.	
16	Section 4. (a) There is hereby created the Illinois	106
17	College Savings Plan Advisory Board. The Board shall consist	107
18	of the State Treasurer, the Director of the Illinois State	108
19	Scholarship Commission and the Director of the Illinois Board	109
20	of Righer Education, or their respective designees, and 6	110
21	other members to be appointed as follows: The Speaker and	111
22	Minority Leader of the House of Representatives and the	
23	President and Minority Leader of the Senate shall each	112
24	appoint one member; the Governor shall appoint two members.	113
25	The Governor and legislative leaders shall give consideration	114
26	to selecting members with knowledge, skill, and experience,	115
27	in the academic, business or financial field. The Board of	117
28	Higher Education representative shall serve as the chair.	
29	The appointed members of the Board first appointed shall	118
30	serve for terms expiring on June 30 in 1989, 1990, 1991,	119
31	1992, 1993 and 1994, respectively, or until their respective	120
32	successors have been appointed and have qualified, the	12:
33	initial term of each such member to be determined by lot.	
34	Upon the expiration of the term of any member his successor	12
35	shall be appointed for a term of 3 years and until his	12

1	successor has been appointed and has qualified. Any vacancy	124
2	shall be filled in the manner of the original appointment for	125
3	the remainder of the unexpired term. Any member of the Board	126
4	may be removed by the appointing authority for misfeasance,	
5	malfeasance or wilful neglect of duty or other cause after	127
6	notice and a public hearing unless such notice and hearing	128
7	shall be expressly waived in writing. Members shall be	129
8	compensated for actual expenses only. The Board shall meet	130
9	at least twice annually.	
10	(b) The Board shall have the following responsibilities:	132
11	(1) Upon issuance of general obligation bonds, to	134
12	implement the College Savings Bond program, as provided in	135
13	this Act, and make available other suitable investment	136
14	instruments to the general public.	137
15	(2) To create a plan for periodic, lump sum or staggered	139
16	investments;	
17	(3) To make recommendations to the Bureau of the Budget	141
18	for a marketing procedure or advertising campaigns for	142
19	College Savings Bonds and other instruments and to assist in	144
20	the implementation and operation of such procedure or system.	
21	(4) To make recommendations to the Bureau of the Budget	146
22	regarding the initial offering of College Savings Bonds that	147
23	are intended to limit the par amount of bonds that may be	148
24	purchased by individual households to an amount to be	149
25	determined by the Board.	•
26	(5) To advise and make recommendations to the Governor	151
27	and the Bureau of the Budget regarding the increments in	152
28	which to market the bonds and recommend maturity dates which	153
29	will make funds available to purchasers at the time when such	154
30	funds are needed for educational purposes.	
31	(6) To advise and make recommendations to the General	156
32	Assembly by June 1, 1988, concerning an advance 'tuition	157
33	program insuring full tuition payment and the feasibility of	158
34	instituting such a program.	
35	(7) To make recommendations to the Governor and the	160

1	Bureau of the Budget regarding additional financial	161
2	incentives as provided in Section 19.7 of the General	162
3	Obligation Bond Act.	
4	(8) To promulgate rules and regulations necessary to	164
5	carry out the intent and purpose of this Act.	165
6	Section 5. Sections 30-15.26 and 30-15.26a are added to	167
7	"The School Code", approved March 18, 1961, as amended, the	168
8	added Sections to read as follows:	
	(Ch. 122, new par. 30-15.26)	170
9	Sec. 30-15.26. The first \$25,000 of College Savings Bond	172
10	investment made pursuant to the "General Obligation Bond	174
11	Act", approved December 4, 1984, or the first \$25,000 of any	175
12	investment instrument offered under the Illinois College	176
13	Savings Plan Act or combination thereof, shall not be	177
14	considered in evaluating the financial situation of a	
15	student, or be deemed a financial resource of or a form of	178
16	financial aid or assistance to such student, for the purposes	179
17	of determining the eligibility of such student for any	180
18	guaranteed loan, scholarship, grant or monetary assistance	181
19	awarded by the State Scholarship Commission, the State or any	
20	agency thereof pursuant to any other law of this State; nor	182
21	shall any College Savings Bond investment provided for a	183
22	student reduce the amount of any quaranteed loan,	184
23	scholarship, grant or monetary assistance which such student	185
24	is entitled to be awarded by the State Scholarship	186
25	Commission, the State or any agency thereof in accordance	
26	with any other law of this State.	187
	(Ch. 122, new par. 30-15.26a)	189
27	Sec. 30-15.26a. The Board of Higher Education and the	191
28	State Scholarship Commission jointly shall develop a college	192
29	cost information program for the purpose of informing parents	193
30	and guardians of prospective college students of the	194
21.	attributes of preparing financially for higher education.	
32	Any information developed shall be submitted to the Board	195
33	created in Section 4 of this Act.	

联工

1	Section 6. Sections 19.1, 19.2, 19.3, 19.4, 19.5, 19.6		
2	and 19.7 are added to the "General Obligation Bond Act",		
3	approved December 4, 1984, as amended, the added Sections to		
4	read as follows:		
	(Ch. 127, new par. 669.1)		
5	Sec. 19.1. The General Assembly hereby finds and		
6	declares that for the benefit of the people of the State of		
7	Illinois, the conduct and increase of their commerce, the		
8	protection and enhancement of their welfare, the development		
9	of continued prosperity and the improvement of their health		
10	and living conditions, it is essential that this and future		
11	generations of youth be given the fullest opportunity to		
12	learn and to develop their intellectual and mental capacities		
13	and skills; that to achieve these ends it is of the utmost		
14	importance that Illinois residents be provided with		
15	investment alternatives to enhance their financial access to		
16	institutions of higher education; and that it is the intent		
17	of this Act to provide to the State of Illinois an		
18	alternative low cost method of borrowing for the purposes		
19	authorized in this Act and to encourage enrollment in		
20	institutions of higher education located in the State of		
21	Illinois, all in execution of the public policy set forth		
22	herein.		
	(Ch. 127, new par. 669.2)		
23	Sec. 19.2. As used in this Act, except where the context		
24	clearly requires otherwise, the following terms shall have		
25	the meanings ascribed to them in this Section:		
26	(a) "College Savings Bonds" means general obligation		
27	bonds of the State issued under this Act and designated as		
28	General Obligation College Savings Bonds.		
29	(b) "Institution of higher education" means a		
30	not-for-profit educational institution or an educational		
21	institution which is owned or controlled by the State or any		
32	political subdivision, agency, instrumentality, district or		
33	municipality thereof, which is authorized by law to provide a		

2 400

.

1	program of education beyond the high school level and, in the	231
2	case of a not-for-profit educational institution, which	232
3	(i) admits as regular students only individuals having a	234
4	certificate of graduation from a high school, or the	235
5	recognized equivalent of such a certificate;	
6	(ii) provides an educational program for which it awards	237
7	a bachelor's degree, or provides an educational program,	238
8	admission into which is conditioned upon the prior attainment	239
9	of a bachelor's degree or its equivalent, for which it awards	240
10	a postgraduate degree, or provides not less than a 2 year	241
11	program which is acceptable for full credit toward such a	242
12	degree, or offers not less than a 2 year program in	
13	engineering, mathematics, or the physical or biological	24:
14	sciences which is designed to prepare the student to work as	24
15	a technician and at a semi-professional level in engineering,	24
16	scientific, or other technological fields which require the	24
17	understanding and application of basic engineering,	
18	scientific, or mathematical principles or knowledge;	24
19	(iii) (A) is accredited by a nationally recognized	24
20	accrediting agency or association or, if not so accredited,	25
21	is an institution whose credits are accepted, on transfer, by	25
22	not less than 3 institutions which are so accredited, and	25
23	holds an unrevoked certificate of approval under "An Act	
24	providing for the regulation of privately-operated colleges,	25
25	junior colleges and universities", approved July 17, 1945, as	25
26	now or hereafter amended, from the State Superintendent of	25
27	Education, or (B) is qualified and approved as a "degree	25
28	granting institution" under "An Act to regulate the granting	
29	of academic degrees, diplomas and certificates by certain	25
30	educational institutions, to provide penalties for the	25
31	violation thereof and to make an appropriation therefor",	25
32	approved August 14, 1961, as now or hereafter amended;	
33	(iv) does not discriminate in the admission of students	26
34	on the basis of race, color or creed;	26
35	(v) has a governing board which possesses its own	26

HEE.

1	sovereignty; and		
2	(vi) has a governing board, or its delegated		
3	institutional officials, which possesses final authority in		
4 .	all matters of local control, including educational policy,		
5	choice of personnel, determination of program, and financial		
6	management.		
	(Ch. 127, new par. 669.3)		
7	Sec. 19.3. In order to provide investors with investment		
8	alternatives to enhance their financial access to		
9	institutions of higher education located in the State of		
10	Illinois, and in furtherance of the public policy of this		
11	.Act, Bonds authorized by the provisions of the General		
12	Obligation Bond Act in the amount of \$300,000,000 may be		
13	issued and sold from time to time as College Savings Bonds in		
14	such amounts as directed by the Governor, upon recommendation		
15	by the Director of the Bureau of the Budget. Bonds to be		
16	issued and sold as College Savings Bonds shall be designated		
17	by the Governor and the Director of the Bureau of the Budget		
18	as "General Obligation College Savings Bonds" in the		
19	proceedings authorizing the issuance of such Bonds, and shall		
20	be subject to all of the terms and provisions of this Act,		
21 except that College Savings Bonds ma	except that College Savings Bonds may bear interest payable		
22	at such time or times and may be sold at such prices and in		
23	such manner as may be determined by the Governor and the		
24	Director of the Bureau of the Budget. If College Savings		
25	25 Bonds are sold at public sale, the	Bonds are sold at public sale, the public sale procedures	
26	shall be as set forth in Section 11 of this Act. College		
27	Savings Bonds may be sold at negotiated sale if the Director		
28	of the Bureau of the Budget determines that a negotiated sale		
29	will result in either a more efficient and economic sale of		
30	such Bonds or greater access by investors resident in the		
31	State of Illinois to such Bonds. If any College Savings		
32	Bonds are sold at a negociaced sale, the underwriter or		
33	underwriters to which such Bonds are sold shall (a) be		
34	organized, incorporated or have their principal place of		

out.

1	business in the State of Illinois, or (b) in the judgment of
2	the Director of the Bureau of the Budget, have sufficient
3	capability to make a broad distribution of such Bonds to
4	investors resident in the State of Illinois. In determining
5	the aggregate principal amount of College Savings Bonds that
6	has been issued pursuant to this Act, the aggregate original
7	principal amount of such Bonds issued and sold shall be taken
8	into account.
	(Ch. 127, new par. 669.4)
9.	Sec. 19.4. Any College Savings Bonds issued pursuant to
10	this Act shall be direct, general obligations of the State of
11	Illinois and subject to repayment as provided in the General
12	Obligation Bond Act; provided, that in the proceedings of the
13	Governor and the Director of the Bureau of the Budget
14	authorizing the issuance of College Savings Bonds, such
15	officials may covenant on behalf of the State with or for the
16	benefit of the holders of such Bonds as to all matters deemed
17	advisable by such officials, including the terms and
18	conditions for creating and maintaining sinking funds,
19	reserve funds and such other special funds as may be created
20	in such proceedings, separate and apart from all other funds
21	and accounts of the State, and such officials may make such
22	other covenants as may be deemed necessary or desirable to
23	assure the prompt payment of the principal of and interest on
24	such Bonds. The transfers to and appropriations from the
25	General Obligation Bond Retirement and Interest Fund required
26	by this Act shall be made to and from any fund or funds
27	created pursuant to this Section for the payment of the
28	principal of and interest on any College Savings Bonds.
	(Ch. 127, new par. 669.5)
29	Sec. 19.5. If the State fails to pay the principal of or
30	interest on any College Savings Bonds or premium, if any, as
31	the same become due, or shall fail to make any required
32	monthly transfer of funds to provide for the payment of such
33	principal, interest or premium, a civil action to compel
33	principal, interest of premism, a civil action to

1	payment may be instituted in the Supreme Court of Illinois as
2	a court of original jurisdiction by the holder or holders of
3	the College Savings Bonds with respect to which such default
4 .	of payment or failure to make a required transfer exists.
5	Delivery of a summons and a copy of the complaint to the
6	Attorney General shall constitute sufficient service to give
7	the Supreme Court of Illinois jurisdiction of the subject
8	matter of such a suit and jurisdiction over the State and its
9	officers named as defendants for the purpose of compelling
10	such payment or transfer. Any case, controversy or cause of
11 .	action concerning the validity of this Act relates to the
12	revenue of the State of Illinois.
13	If the Supreme Court of Illinois denies the holder or
14	holders of Bonds leave to file an original action in the
15	Supreme Court, the bond holder or holders may bring the
16	action in the Circuit Court of Sangamon County.
	(Ch. 127, new par. 669.6)
17	Sec. 19.6. As provided in this Act, the issuance of
18	College Savings Bonds is in all respects for the benefit of
19	the people of the State of Illinois, the conduct and increase
20	of their commerce, the protection and enhancement of their
21	welfare, the development of continued prosperity and the
22	improvement of their health and living conditions and the
23	issuance of such Bonds is for public purposes. In
24	consideration thereof, College Savings Bonds issued pursuant
25	to this Act and the income derived therefrom shall be free
26	from all taxation by the State or its political subdivisions,
27	except for estate, transfer and inheritance taxes.
	(Ch. 127, new par. 669.7)
28	Sec. 19.7. The proceedings of the Governor and the
29	Director of the Bureau of the Budget authorizing the issuance
30	of College Savings Bonds shall also provide for additional
51 ·	rinancial incentives to be provided to holders of such Bonds
32	to encourage the enrollment of students at institutions of
33	higher education located in the State of Illinois. Such

THE .

fin	ancial incentives shall be in such forms as determined by
the	Governor and the Director of the Bureau of the Budget at
the	time of the authorization of such College Savings Bonds
and	may include, among others, supplemental payments to the
hol	ders of such Bonds at maturity to be applied to tuition
cos	ts at institutions of higher education located in the
Sta	te of Illinois. Such financial incentives shall be
pro	vided only if, in the sole judgment of the Director of the
Bur	eau of the Budget, the cost of such incentives will not
cau	se the cost to the State of the proceeds of the College
Sav	ings Bonds being sold to be increased by more than 1/2 of
11.	No such financial incentives shall be paid to assist in
the	financing of the education of a student (i) in a school
OI	department of divinity for any religious denomination or
(ii) pursuing a course of study consisting of training to
bec	ome a minister, priest, rabbi or other professional person
in	the field of religion.
	Section 7. This Act takes effect upon its becoming law.

The religion of a property of the party of t

APPENDIX E

J. JOSEPH CURRAN, JR.



Judson P. Garrett, Ir. Charles O. Monk, II Dennis M. Sweeney

Deputy Attorneys General

OFFICE OF THE ATTORNEY GENERAL

Munsey Building Calvert and Fayette Streets Baltimore, Maryland 21202-1909

(301) 576-6300

WRITER'S DIRECT DIAL NO. (301) 576-6450

Beko, Area 576-6372 O.C. Metro 565-0451 TTY for Deaf

September 16, 1987

MEMORANDUM

Mr. Les Disharoon

Task Force on Alternative College Financing

State House, Annapolis, Maryland

Mary L. Preis FROM:

General Assistant Attor

SUBJECT: Zero Coupon Bonds

Dr. Laslo Boyd has asked us to address the constitutionality of the State's issuing zero coupon bonds for the purpose of financing a college education. He indicated that such bonds are sold in other states and that the Maryland Task Force on Alternative College Financing may consider a sale of such bonds in Maryland. He also asked whether the State can seil the bonds with maturity dates of ionger than 15 years.

A. BACKGROUND

The states which have addressed this savings bond approach have reserved a portion of the general obligation bonds for saie to families saving for higher education. Generally the bonds, like other general obligation bonds, are exempt from state and sometimes federal tax. In other jurisdictions the bonds are marketed widely through banks and financial institutions in small denominations. The bonds are issued without interest coupons, so that the interest is accumulated and paid at maturity, not during the life of the bond; ali interest is reinvested for the saver. Bonds are issued at a price that is determined by the prevailing market conditions and interest rates. This price is discounted substantially below the par or face value of the bond because the borrower page no interest until the bonds mature. borrower pays no interest until the bonds mature. A premium is sometimes offered if bonds are redeemed to pay for college expenses and one jurisdiction pays an additional bonus payment bond holders providing proof that their child is enrolled in a

Ms. Les Disharoon September 16, 1987 Page 2

A RESIDENCE OF A PROPERTY OF A PARTY OF THE
state college or university. See generally Gelfand, State & Local Government Debt Financing, \$4:23-25 (1986).

B. BOND ISSUANCE

1. General Obligation Bonds: Article 3, \$34 of the Constitution of Maryland provides as follows:

"No debt shall be hereafter contracted by the General Assembly unless such debt shall be authorized by a law providing for the collection of an annual tax or taxes sufficient to pay the interest on such debt as it falls due, and also to discharge the principal thereof within fifteen years of the time of contracting the same;...."

Further, the credit of the State may not be given or loaned to any individual, association or corporation nor may the State become involved in construction of "works of internsl improvement" which involve the full faith or credit of the State.

The State Finance and Procurement Article generally governs the procedure for issuing Maryland general obligation bonds. These bonds are backed by the full faith and credit the Stste. The law defines a bond as an obligation for the payment of money, by whatever name known or source of fund secured, issued by a state unit under a general or statutory authority. The General Assembly passes an enabling act to authorize a state unit to create a debt and sell bonds. SF \$8-201. A state unit may issue bonds in coupon form or any form that qualifies as a registered form under \$103 of the Internal Revenue Code of 1954. SF \$8-205. Proceeds of a sale of state bonds may be used only for capital improvement unless the enabling act specifically provides otherwise or there is an emergency. SF \$8-127. After receiving authority by an enabling act of the General Assembly the Board of Public Works provides for the terms, conditions, security, issuance, sale, delivery, replacement, and repayment by one or more resolutions. SF \$8-117-119. General Obligation Bonds must be issued only after a tax or taxes have been imposed to pay the principal and interest of the indebtedness.

Constitutionality: I see no constitutional impediment to the issuance of small denomination zero coupon type bonds so long as a General Obligation Bond Authority enabling act clearly states the public purpose of the debt and authorizes its creation. Although the interest on the bonds is not paid perodically through the life of the bond, all interest will be paid "when it falls due" at maturity of the bonds. See SF 58-127. Finally, because it is a general obligation bond, provision must be made to discharge the principal and interest of the debt within 15 years from the time it is contracted. No bond may have a maturity date later than 15 years from the date of issue.

Ms. Les Disharoon September 16, 1987 Page 3

While I believe the concept of issuing zero coupon general obligation bonds is compatible with State constitutional provisions, this conclusion is based on an imprecise description of the bonds to be issued. The final test of constitutionality will obviously depend on the specific features of the program and the legislation drafted to issue the bonds and retire the debt. Such legislation is complex and, I believe must be approached carefully. See Maryland Finance and Procurement Article, Title 8. Creation of new state, for example, is reviewed by a Debt Affordability Committee that would assess the implications of creating a large outstanding debt principal in exchange for a small initial income from the bonds. Further, I have not addressed any legal questions related to either the tax exempt status or the sale and redemption mechanism of such bonds, both complex issues.

2. Special Fund Bonds: Another kind of bond, a revenue bond, may be issued in Maryland under the Special Fund Doctrine. This doctrine applies where an obligation is incurred and is payable wholly out of incoming revenue of the bond enterprise which it finances. These revenues provide a fund from which the principal and interest of the bonds are paid and no other fund of the government unit may be pledged to pay such a special obligation. Lacher v. Board of Trustees, 243 Md. 500, 507 (1966). No state debt is created when bonds are issued to be repaid from funds, not taxes, flowing solely from the facility to be created by the proceeds of the bonds, so long as there is no pledge of existing state property and no pledge of income from existing state property. Wyatt v. State Roads Commission, 175 Md. 258, 266 (1938).

Under this doctrine State universities and colleges have built auxiliary facilities. In a bond indenture agreement they have pledged that the revenue from facilities financed will flow to an account held in trust to reduce the principal and interest on the bonds. These bonds are issued when an act of legislature enables an institution's governing board to do so and resolutions by the board permit the issuance and sale. It is not necessary that the principal of the debt be discharged within 15 years from date of issue because it is not a public debt of the state under the constitutional provision. Generally, however, the life of the objects financed must at least equal the length of time the bond will be outstanding.

Although a public purpose may be served by promoting saving for a college education, no facilities are being financed by issuance of these bonds. No independent source of revenue is being created to repay the indebtedness. The Special Fund doctrine as it has applied to schools in the past may therefore not apply. Theoretically, however, the state could issue bonds with no coupons, hold the money on deposit in the Treasury or with a financial institution, allow the interest to accrue, pay the cost of the issuance and administrative costs out of the interest earned on the proceeds and use the principal and

Ms. Les Disharoon September 16, 1987 Page 4

interest only to repay the bond holder the face value of the bond at maturity. This would be in effect a savings account for the state; I do not know whether it would be a tax exempt vehicle for savers.

I trust this has been responsive to your request.

MLP/kmi

cc: Dr. Laslo Boyd Gayle Fink James J. Mingle

ADVICE OF COUNSEL

NOT AN OFFICIAL OPINION

OF THE ATTORNEY GENERAL